LC4.9E

AB

Service
Service
Service

For manual LGE plasma panels see: 3122 785 15590
For manual FHP plasma panels see: 3122 785 14580
For manual SDI plasma panels see: 3122 785 14990



Service Manual

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PHILIPS

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

1.1 Technical Specifications
1.2 Connection Overview
1.3 Chassis Overview

Notes:

- Figures can deviate due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Vision

Display type	:	Plasma
Screen size	:	42” (107 cm), 16:9
Resolution (HxV pixels)	:	852 x 480
Contrast ratio	:	
- 42PF5520D/10	:	10,000:1
- 42PF7520D/10	:	13,000:1
Light output (cd/m^2)	:	1500
Viewing angle (HxV degrees)	:	160x160
Tuning system	:	PLL
Reception standards	:	Analogue &
	:	digital terrestrial TV
	:	(DVB-T)
TV Colour systems	:	PAL B/G, D/K, I
	:	SECAM B/G, D/K, L/L’
Video playback	:	PAL B/G; SECAM L/L’
	:	NTSC M/N 3.58, 4.43
Supported computer formats	:	VGA (640x480)
	:	VGA (720x400)
	:	VGA (720x480)
	:	MAC (640x480)
	:	MAC (832x624)
	:	SVGA (800x600)
	:	XVGA (1024x768)
	:	WXGA (1280x768)
	:	WXGA (1280x960)
	:	WXGA (1280x1024)
Supported video formats	:	640x480i - 1fH
	:	720x576i - 1fH
	:	640x480p - 2fH
	:	720x576p - 2fH
	:	852x480p - 2fH
	:	1920x1080i - 2fH
Presets/channels	:	100 presets
Tuner bands	:	VHF
	:	UHF
	:	S-band
	:	Hyper-band

1.1.2 Sound

Sound systems	:	FM-mono
	:	FM-stereo B/G
	:	NICAM B/G, D/K, I, L
	:	AV Stereo
Maximum power (W_{RMS})	:	2 x 15

1.1.3 Miscellaneous

Power supply:		
- Mains voltage (V_{AC})	:	220 - 240
- Mains frequency (Hz)	:	50 / 60
Ambient conditions:		
- Temperature range (°C)	:	+5 to +40
- Maximum humidity	:	90% R.H.
Power consumption		
- Normal operation (W)	:	≈ 450
- Stand-by (W)	:	< 2
Dimensions (WxHxD cm)	:	124x68x10.4
Weight (kg)	:	42

1.2 Connection Overview

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, and Ye= Yellow.

1.2.1 Side I/O connections

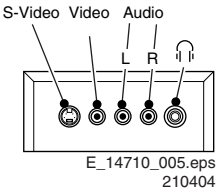


Figure 1-1 Side I/O connections

S-Video (Hosiden): Video Y/C - In

1	- Ground Y	Gnd
2	- Ground C	Gnd
3	- Video Y	1 V_{PP} / 75 ohm
4	- Video C	0.3 V_{PP} / 75 ohm

Cinch: Video CVBS - In, Audio - In

Ye	- Video CVBS	1 V_{PP} / 75 ohm
Wh	- Audio L	0.5 V_{RMS} / 10 kohm
Rd	- Audio R	0.5 V_{RMS} / 10 kohm

Mini Jack: Audio Head phone - Out

Bk	- Head phone	32 - 600 ohm / 10 mW

1.2.2 Rear Connections

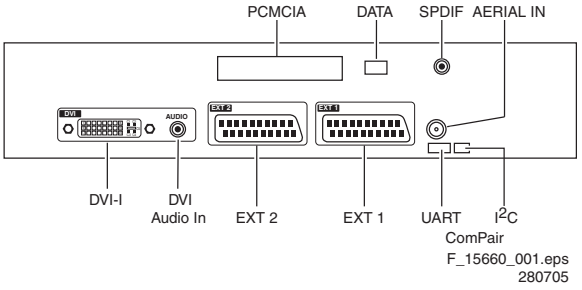


Figure 1-2 Rear I/O

Aerial - In

-	- IEC-type (EU)	Coax, 75 ohm

Mini Jack: Audio - In

1	- Ground	Gnd
2	- Audio L	0.5 V_{RMS} / 10 kohm
3	- Audio R	0.5 V_{RMS} / 10 kohm

PCMCIA

1. Ground
2. Data 3
3. Data 4
4. Data 5
5. Data 6
6. Data 7
7. Card Enable 1
8. Address 10
9. Output Enable
10. Address 11
11. Address 9
12. Address 8
13. Address 13
14. Address 14
15. Program / Write Enable
16. Ready or Busy / Interrupt Request
17. Power (V_{CC})
18. Programming and Periferal Supply 1
19. Address 16
20. Address 15
21. Address 12
22. Address 7
23. Address 6
24. Address 5
25. Address 4
26. Address 3
27. Address 2
28. Address 1
29. Address 0
30. Data 0
31. Data 1
32. Data 2
33. Write Protect / IO Port is 16-Bit
34. Ground
35. Ground
36. Card Detect 1
37. Data 11
38. Data 12
39. Data 13
40. Data 14
41. Data 15
42. Card Enable 2
43. Refresh
44. IO Read
45. IO Write
46. Address 17
47. Address 18
48. Address 19
49. Address 20
50. Address 21
51. Power (V_{CC})
52. Programming and Periferal Supply 2
53. Address 22
54. Address 23
55. Address 24
56. Address 25
57. Reserved
58. Card Reset
59. Extend Bus Cycle
60. Input Port Acknowledge
61. Register Select and IO Enable
62. Battery Voltage Detect 2 / Audio Digital Waveform
63. Battery Voltage Detect 1 / Card Status Changed
64. Data 8
65. Data 9
66. Data 10
67. Card Detect 2
68. Ground

Data

1	- SDA-S	I^2C Data (0 - 5 V)	⊕⊖→
2	- SCL-S	I^2C Clock (0 - 5 V)	⊕
3	- Ground	Gnd	⏚

SPDIF

1	- RCA (Electrical)	Coax, 75 ohm	⊕

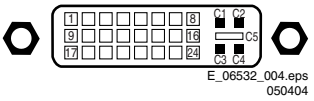
Service Connector (ComPair)

1	- SDA-S	I^2C Data (0 - 5 V)	⊕⊖→
2	- SCL-S	I^2C Clock (0 - 5 V)	⊕
3	- Ground	Gnd	⏚

Service Connector (UART)

1	- UART_TX	Transmit	⊖→
2	- Ground	Gnd	⏚
3	- UART_RX	Receive	⊕

DVI-I: Digital/Analogue Video - In

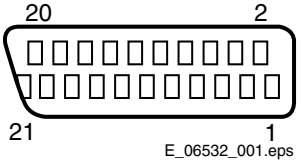


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Figure 1-3 DVI-I connector

1	- D2-		⊕
2	- D2+		⊕
3	- Shield	Gnd	⏚
4	- D4-		⊕
5	- D4+		⊕
6	- DDC_SCL	DDC clock	⊖→
7	- DDC_SDA	DDC data	⊕⊖→
8	- V-sync	0 - 5 V	⊕
9	- D1-		⊕
10	- D1+		⊕
11	- Shield	Gnd	⏚
12	- D3-		⊕
13	- D3+		⊕
14	- +5V		⊕
15	- Ground	Gnd	⏚
16	- HPD	Hot Plug Detect	⊕
17	- D0-		⊕
18	- D0+		⊕
19	- Shield	Gnd	⏚
20	- D5-		⊕
21	- D5+		⊕
22	- Shield	Gnd	⏚
23	- CLK+		⊕
24	- CLK-		⊕
C1	- Video Red	0.7 V_{PP} / 75 ohm	⊕
C2	- Video Green	0.7 V_{PP} / 75 ohm	⊕
C3	- Video Blue	0.7 V_{PP} / 75 ohm	⊕
C4	- H-sync	0 - 5 V	⊕
C5	- Ground	Gnd	⏚

EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out



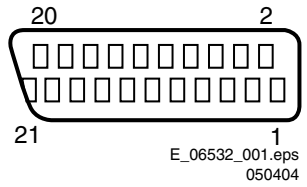
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Figure 1-4 SCART connector

1	- Audio R	0.5 V_{RMS} / 1 kohm	⊖→
2	- Audio R	0.5 V_{RMS} / 10 kohm	⊕
3	- Audio L	0.5 V_{RMS} / 1 kohm	⊖→
4	- Ground Audio	Gnd	⏚
5	- Ground Blue	Gnd	⏚
6	- Audio L	0.5 V_{RMS} / 10 kohm	⊕
7	- Video Blue	0.7 V_{PP} / 75 ohm	⊕
8	- Function Select	0 - 2 V: INT	
		4.5 - 7 V: EXT 16:9	
		9.5 - 12 V: EXT 4:3	⊕

9	- Ground Green	Gnd	⏚
10	- n.c.		
11	- Video Green	0.7 V_{PP} / 75 ohm	⊕
12	- n.c.		
13	- Ground Red	Gnd	⏚
14	- Ground	Gnd	⏚
15	- Video Red	0.7 V_{PP} / 75 ohm	⊕
16	- Status/FBL	0 - 0.4 V: INT	⊕
		1 - 3 V: EXT / 75 ohm	
17	- Ground Video	Gnd	⏚
18	- Ground FBL	Gnd	⏚
19	- Video Terr. CVBS	1 V_{PP} / 75 ohm	⊖
20	- Video CVBS/Y	1 V_{PP} / 75 ohm	⊕
21	- Shield	Gnd	⏚

EXT2: Video Y/C - in, CVBS - In/Out, Audio - In/Out



1	- Audio R	0.5 V_{RMS} / 1 kohm	⊖
2	- Audio R	0.5 V_{RMS} / 10 kohm	⊕
3	- Audio L	0.5 V_{RMS} / 1 kohm	⊖
4	- Ground Audio	Gnd	⏚
5	- Ground Blue	Gnd	⏚
6	- Audio L	0.5 V_{RMS} / 10 kohm	⊕
7	- n.c.		
8	- Function Select	0 - 2 V: INT	
		4.5 - 7 V: EXT 16:9	
		9.5 - 12 V: EXT 4:3	⊕
9	- Ground Green	Gnd	⏚
10	- n.c.		
11	- n.c.		
12	- n.c.		
13	- Ground Red	Gnd	⏚
14	- Ground	Gnd	⏚
15	- YC/C - in	0.7 V_{PP} / 75 ohm	⊕
16	- n.c.		
17	- Ground Video	Gnd	⏚
18	- Ground	Gnd	⏚
19	- Video Mon. CVBS	1 V_{PP} / 75 ohm	⊖
20	- YC/Y - in	0.7 V_{PP} / 75 ohm	⊕
21	- Shield	Gnd	⏚

Figure 1-5 SCART connector

1.3 Chassis Overview

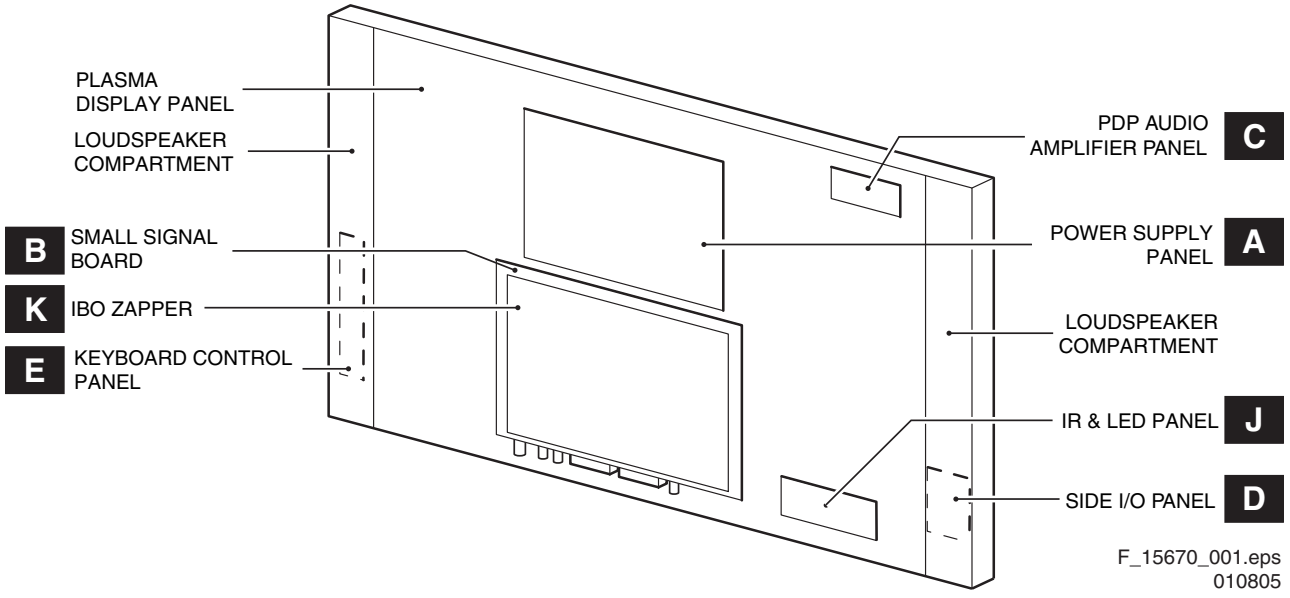


Figure 1-6 PWB locations

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

2.1 Safety Instructions
2.2 Warnings
2.3 Notes

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
  1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
  2. Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
  3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  – Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  – Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏚), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (⊓) and without (⊼) aerial signal. Measure the voltages in the power supply section both in normal operation (①) and in stand-by (⏻). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the “double-D symbol”, are trademarks of Dolby Laboratories.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-12}).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Rework on BGA (Ball Grid Array) ICs

General

Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device Removal

As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the risk of warping the PWB. To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation

When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA.
Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent.
After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.
Note: Do not apply solder paste, as this has been shown to result in problems during re-soldering.

Device Replacement
The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

More Information
For more information on how to handle BGA devices, visit this URL: *www.atyourservice.ce.philips.com* (needs subscription, not available for all regions). After login, select “Magazine”, then go to “Repair downloads”. Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).



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Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.



Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:
- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  - To reach a solder-tip temperature of at least 400°C.
  - To stabilise the adjusted temperature at the solder-tip.
  - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch “off” unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).
  Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:
- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid mix of two alloys).

Caution: For BGA-ICs, you **must** use the correct temperature-profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions)
You will find this and more technical information within the "Magazine", chapter "Repair downloads".
For additional questions please contact your local repair help desk.

2.3.5 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG**2**B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.
By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used.
If the third digit of the serial number contains the number 1 (example: AG**1**B033500001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG**2**B0335000001), then there are two different B.O.M.s. ***Information about this is important for ordering the correct spare parts!***
For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages**. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

You can download this information from the following websites:
http://www.philips.com/support
http://www.p4c.philips.com

4. Mechanical Instructions

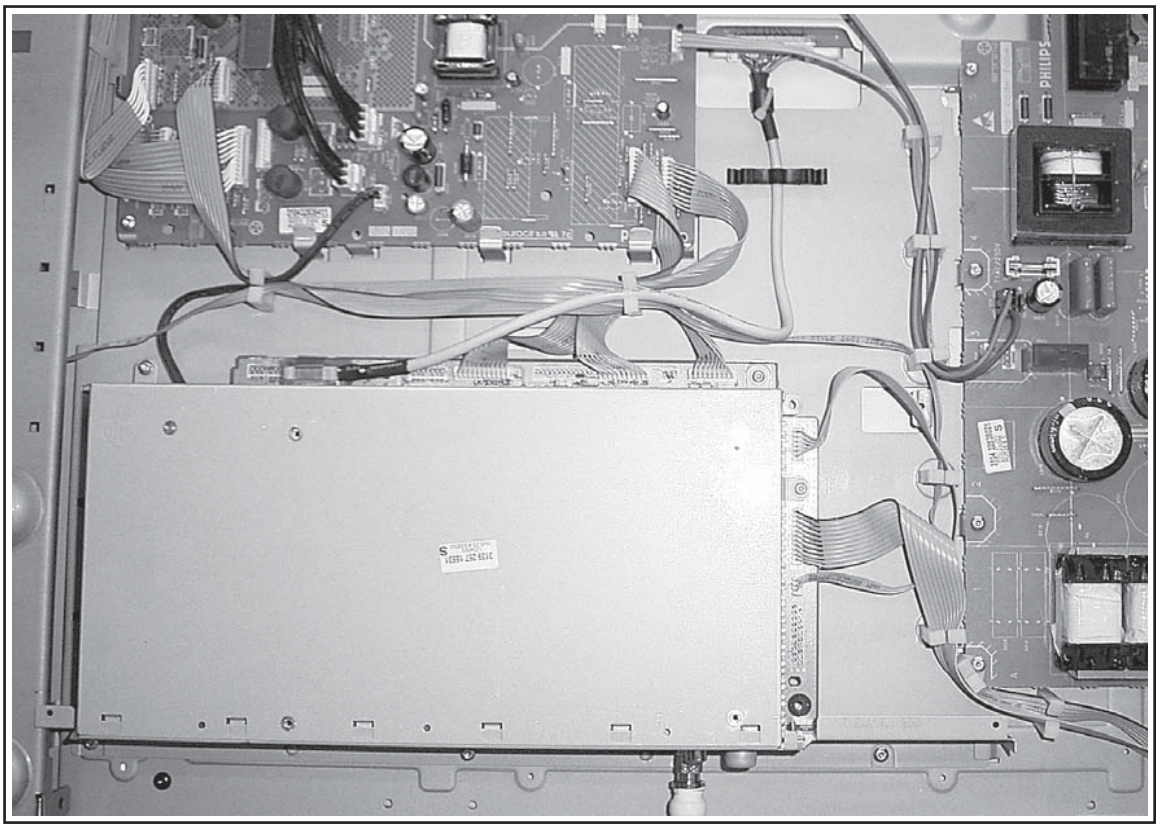
Index of this chapter:

4.1 Cable Dressing
4.2 Service Positions
4.3 Assy/Panel Removal
4.4 Set Re-assembly

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassembling instructions in described order.

4.1 Cable Dressing



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Figure 4-1 Cable dressing

4.2 Service Positions

For easy servicing of this set, there are a few possibilities created:

- The buffers from the packaging (see figure "Rear cover").
- Foam bars (created for service).
- Aluminium service stands (created for Service).

4.2.1 Foam Bars

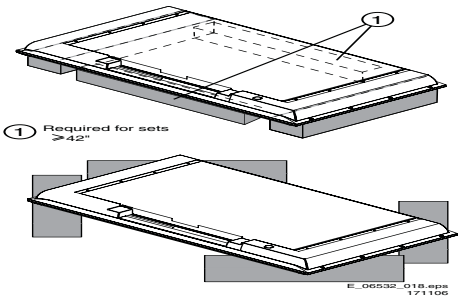


Figure 4-2 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. By laying the TV face down on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments.
By placing a mirror under the TV, you can monitor the screen.

4.2.2 Aluminium Stands

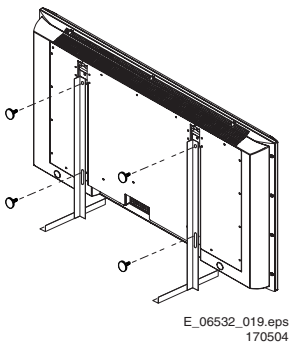


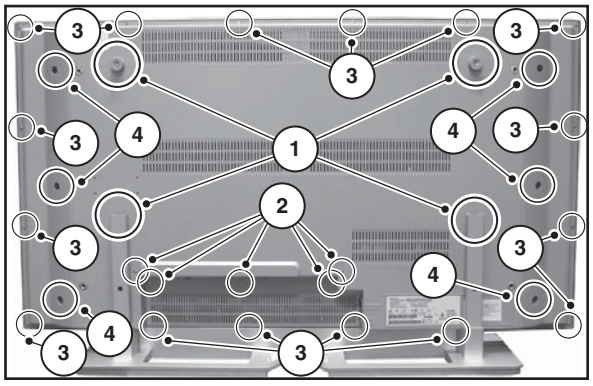
Figure 4-3 Aluminium stands (drawing of MkI)

The aluminium stands (order code 3122 785 90480) can be mounted with the back cover removed or still left on. So, the stand can be used to store products or to do measurements. It is also very suitable to perform duration tests without taking much space, without having the risk of overheating, or the risk of products falling. The stands can be mounted and removed quick and easy with use of the delivered screws that can be tightened and loosened manually without the use of tools. See figure above.

Note: Only use the delivered screws to mount the monitor to the stands.

4.3 Assy/Panel Removal

4.3.1 Rear Cover



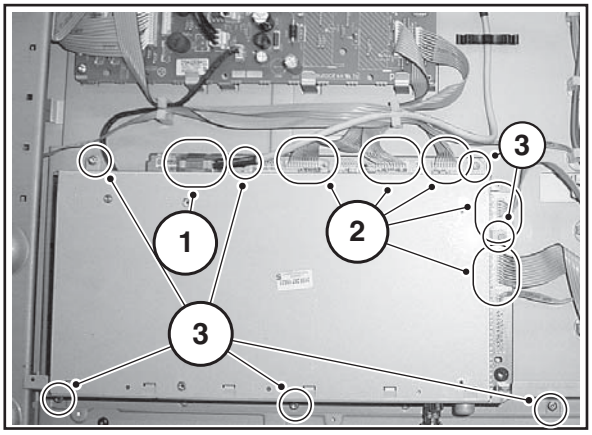
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Figure 4-4 Rear cover

Warning: Disconnect the mains power cord before you remove the rear cover.

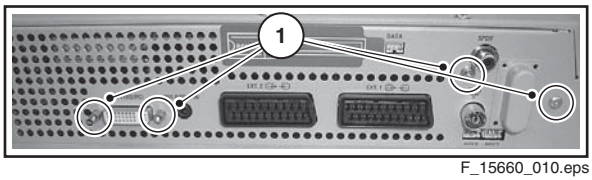
1. Remove the screws that secure the rear cover (see Figure “Rear cover screws”); these are:
   a) 4 x big torx screws (1) for securing the stand/wall mount;
   b) 5 x small torx screws (2) near the rear I/O panel;
   c) 22 x small torx screws (3) that secure the loudspeaker compartments [6 of these screws are in sunken holes (4)] and along the edges of the rear cover.
2. Lift the rear cover from the cabinet cautiously. Make sure that wires and other internal components are not damaged during cover removal.

4.3.2 Cover Shield for IBO-zapper & SSB



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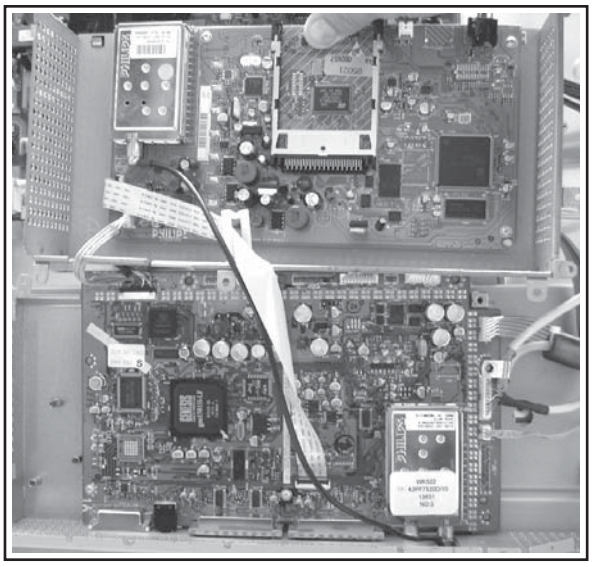
Figure 4-5 Cover shield



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Figure 4-6 DVI-I & SPDIF connector screws

1. Very **cautiously** disconnect the LVDS cable (1) from the SSB panel (see Figure “Cover shield”). Notice that this cable is very fragile.
2. Unplug the black cable coming from the IBO zapper/SSB board from the Audio/STBY board (see Figure “Cover shield”).
3. Remove all other cables (2) from the IBO zapper/SSB board (see Figure “Cover shield”).
4. Remove the 5 fixation screws that connect the top shielding with the bottom shielding, and also the 2 fixation screws that connect it with the rear connector plate, see Figure “Cover shield”.
5. Remove the fixation screws from the DVI-I connector and from the SPDIF connector, see Figure “DVI-I & SPDIF connector screws (1)”.
6. Remove the upper part of the shield (with the IBO zapper attached to it) from the lower part of the shield (on which the SSB board is located), by unhooking it from its brackets. Be careful not to damage the LVDS connector on the SSB board, see Figure “Cover shield”.
7. Finally, remove the IBO zapper (attached to the top shielding with 4 screws), and the SSB board (attached to the lower shielding with 2 screws), see Figure “IBO zapper & SSB”.



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Figure 4-7 IBO-zapper & SSB

4.4 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:

- While re-assembling, make sure that all cables are placed and connected in their original positions. See Figure "Cable dressing". Be careful with the fragile LVDS cable.
- For a complete description of the Plasma panel, see the LGE plasma panel Service Manual (12nc is listed on the frontpage).

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points
5.2 Service Modes
5.3 Problems and Solving Tips Related to CSM
5.4 Service Tools
5.5 Error Codes
5.6 The Blinking LED Procedure
5.7 Fault Finding and Repair Tips

5.1 Test Points

This chassis is equipped with test points in the service printing. In the schematics test points are identified with a rectangle box around Fxxx or Ixxx.
Perform measurements under the following conditions:

- Television set in Service Default Alignment Mode.
- Video input: Colour bar signal.
- Audio input: 3 kHz left channel, 1 kHz right channel.

5.2 Service Modes

Service Default mode (SDM) & Service Alignment Mode (SAM) offers several features for the service technician, while the Customer Service Mode (CSM) & Digital Customer Service Mode (DCSM) are used for communication between the call centre and the customer.

This chassis also offers the option of using ComPair, a hardware interface between a computer and the TV chassis. It offers the possibilities of structured troubleshooting, error code reading, and software version readout for all chassis.
Minimum requirements for ComPair: a Pentium processor, a Windows OS, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose

- To create a predefined setting for measurements to be made.
- To override software protections.
- To start the blinking LED procedure.
- To inspect the error buffer.
- To check the life timer.

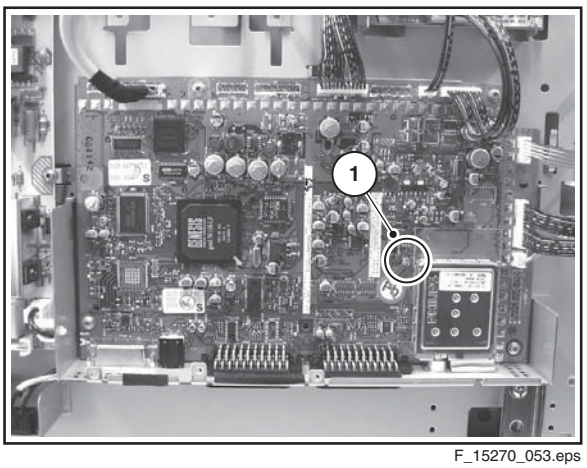
Specifications

- Tuning frequency: 475.25 MHz.
- Colour system: PAL-BG.
- All picture settings at 50% (brightness, colour contrast, hue).
- Bass, treble, and balance at 50 %; volume at 25 %.
- All service-unfriendly modes (if present) are disabled. The service unfriendly modes are:
  - Timer / Sleep timer.
  - Child / parental lock.
  - Blue mute.
  - Hotel / hospital mode.
  - Auto shut off (when no “IDENT” video signal is received for 15 minutes).
  - Skipping of non-favourite presets / channels.
  - Auto-storage of personal presets.
  - Auto user menu time-out.
  - Auto Volume Levelling (AVL).

How to Enter

To enter SDM, use one of the following methods:

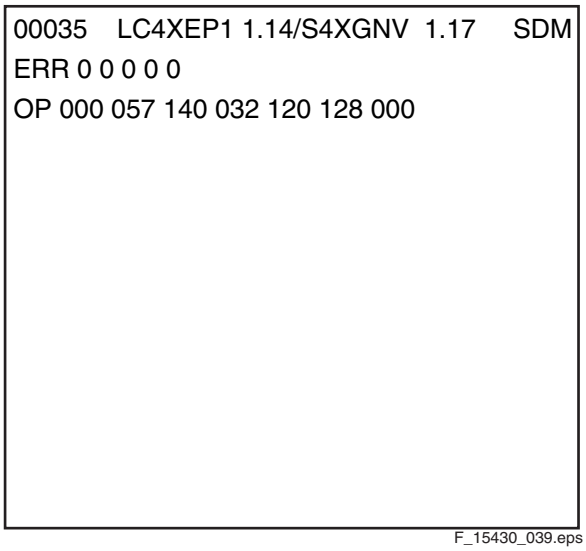
- Press the following key sequence on the remote control transmitter: “**062596**” directly followed by the MENU button (do not allow the display to time out between entries while keying the sequence).
- Short "Service" jumpers on the TV board during cold start and apply mains (see Figure "Service jumpers"). Then press the mains button (remove the short after start-up). **Caution**: Entering SDM by shorting "Service" jumpers will override the +8V-protection. Do this only for a short period. When doing this, the service-technician must know exactly what he is doing, as it could damage the television set.
- Or via ComPair.



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Figure 5-1 Service jumpers

After entering SDM, the following screen is visible, with SDM in the upper right corner of the screen to indicate that the television is in Service Default Mode.



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Figure 5-2 SDM menu

How to Navigate

Use one of the following methods:

- When you press the MENU button on the remote control, the set will switch on the normal user menu in the SDM mode.
- On the TV, press and hold the VOLUME DOWN and press the CHANNEL DOWN for a few seconds, to switch from SDM to SAM and reverse.

How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set.
If you turn the television set off by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SDM when mains is re-applied, and the error buffer is not cleared.

5.2.2 Service Alignment Mode (SAM)

Purpose

- To change option settings.
- To display / clear the error code buffer.
- To perform alignments.

Specifications

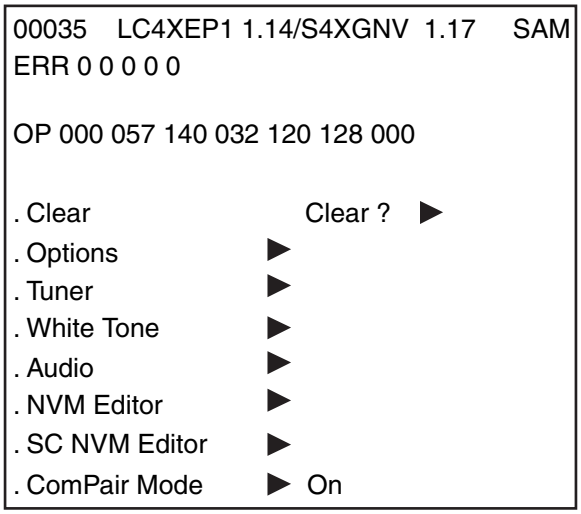
- Operation hours counter (maximum five digits displayed).
- Software version, Error codes, and Option settings display.
- Error buffer clearing.
- Option settings.
- AKB switching.
- Software alignments (Tuner, White Tone, Geometry & Audio).
- NVM Editor.
- ComPair Mode switching.

How to Enter

To enter SAM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: "**062596**" directly followed by the OSD/ STATUS/INFO(I+) button (do not allow the display to time out between entries while keying the sequence).
- Or via ComPair.

After entering SAM, the following screen is visible, with SAM in the upper right corner of the screen to indicate that the television is in Service Alignment Mode.



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Figure 5-3 SAM menu

How to Store SAM Settings

To store the settings changed in SAM mode, leave the top level SAM menu by using the POWER button on the remote control transmitter or the television set.

Menu Explanation

1. **LLLLL.** This represents the run timer. The run timer counts normal operation hours, but does not count standby hours.
2. **AAABCD-X.Y.** This is the software identification of the main microprocessor:
   - **A**= the project name (LC04.x).
   - **B**= the region: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM.
   - **C**= the software diversity:
     - **Europe:** T= 1 page TXT, F= Full TXT, V= Voice control.
     - **LATAM and NAFTA:** N= Stereo non-dBx, S= Stereo dBx.
     - **Asian Pacific:** T= TXT, N= non-TXT, C= NTSC.
     - **ALL regions:** M= mono, D= DVD, Q= Mk2.
   - **D**= the language cluster number.
   - **X**= the main software version number (updated with a major change that is incompatible with previous versions).
   - **Y**= the sub software version number (updated with a minor change that is compatible with previous versions).
3. **EEEEE-F.GG.** This is the software identification of the Scaler:
   - **EEEEEE**= the scaler sw cluster
   - **F**= the main sw version no.
   - **GG**= the sub-version no.
4. **SAM.** Indication of the Service Alignment Mode.
5. **Error Buffer.** Shows all errors detected since the last time the buffer was erased. Five errors possible.
6. **Option Bytes.** Used to set the option bytes. See "Options" in the Alignments section for a detailed description. Seven codes are possible.
7. **Clear.** Erases the contents of the error buffer. Select the CLEAR menu item and press the MENU RIGHT key. The content of the error buffer is cleared.
8. **Options.** Used to set the option bits. See "Options" in the Alignments section for a detailed description.
9. **Tuner.** Used to align the tuner. See "Tuner" in the Alignments section for a detailed description.
10. **White Tone.** Used to align the white tone. See "White Tone" in the Alignments section for a detailed description.
11. **Audio.** No audio alignment is necessary for this television set.
12. **NVM Editor.** Can be used to change the NVM data in the television set. See table "NVM data" further on.
13. **SC NVM Editor.** Can be used to edit Scaler NVM.
14. **ComPalr.** Can be used to switch on the television to In System Programming (ISP) mode, for software uploading via ComPair.
    Caution: When this mode is selected without ComPair connected, the TV will be blocked. Remove the AC power to reset the TV.

How to Navigate

- In SAM, select menu items with the MENU UP/DOWN keys on the remote control transmitter. The selected item will be highlighted. When not all menu items fit on the screen, use the MENU UP/DOWN keys to display the next / previous menu items.
- With the MENU LEFT/RIGHT keys, it is possible to:
  - Activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected submenu.
- In SAM, when you press the MENU button twice, the set will switch to the normal user menus (with the SAM mode still active in the background). To return to the SAM menu press the MENU or STATUS/EXIT button.
- When you press the MENU key in while in a submenu, you will return to the previous menu.

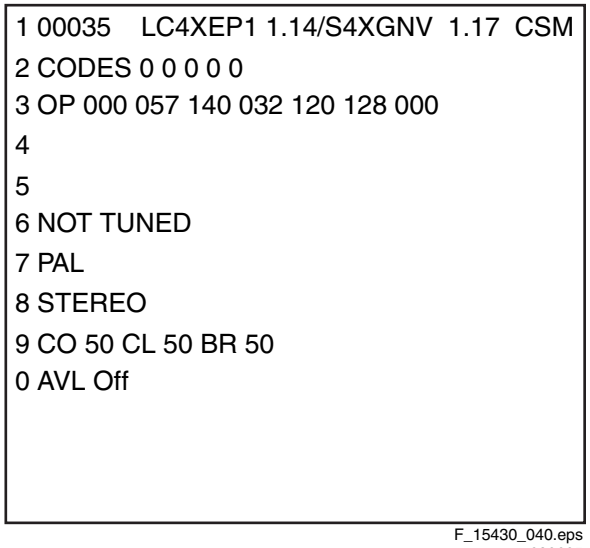
How to Exit
Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set.
If you turn the television set “off” by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SAM when mains is re-applied, and the error buffer is not cleared.

5.2.3 Customer Service Mode (CSM)

Purpose
The Customer Service Mode shows error codes and information on the TV’s operation settings. The call centre can instruct the customer (by telephone) to enter CSM in order to identify the status of the set. This helps the call centre to diagnose problems and failures in the TV set before making a service call.
The CSM is a read-only mode; therefore, modifications are not possible in this mode.

How to Enter
To enter CSM, press the following key sequence on the remote control transmitter: “**123654**” (do not allow the display to time out between entries while keying the sequence).

Upon entering the Customer Service Mode, the following screen will appear:



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Figure 5-4 CSM menu

Menu Explanation
1. Indication of the decimal value of the operation hours counter, Software identification of the main microprocessor (see "Service Default or Alignment Mode" for an explanation), and the service mode (CSM = Customer Service Mode).
2. Displays the last five errors detected in the error code buffer.
3. Displays the option bytes.
4. Displays the type number version of the set.
5. Reserved item for P3C call centres (AKBS stands for Advanced Knowledge Base System).
6. Indicates the television is receiving an "IDENT" signal on the selected source. If no "IDENT" signal is detected, the display will read "NOT TUNED"
7. Displays the detected Colour system (e.g. PAL/NTSC).
8. Displays the detected Audio (e.g. stereo/mono).
9. Displays the picture setting information.
10. Displays the sound setting information.

How to Exit
To exit CSM, use one of the following methods:
- Press the MENU, STATUS/EXIT, or POWER button on the remote control transmitter.
- Press the POWER button on the television set.

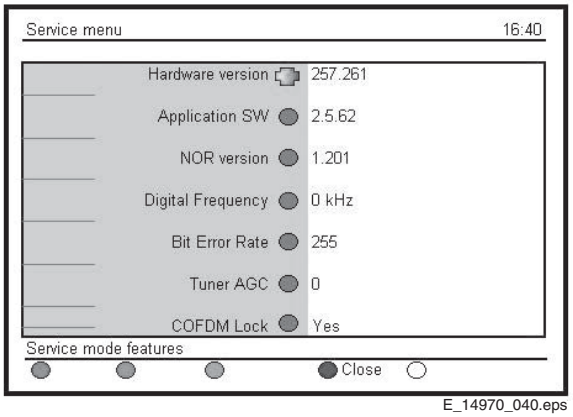
5.2.4 Digital Customer Service Mode (DCSM)

Purpose
The Digital Customer Service Mode shows error codes and information on the IBO Zapper module operation settings. The call centre can instruct the customer to activate DCSM by telephone and read off the information displayed. This helps the call centre to diagnose problems and failures in the IBO Zapper module before making a service call.

The DCSM is a read-only mode; therefore, modifications are not possible in this mode.

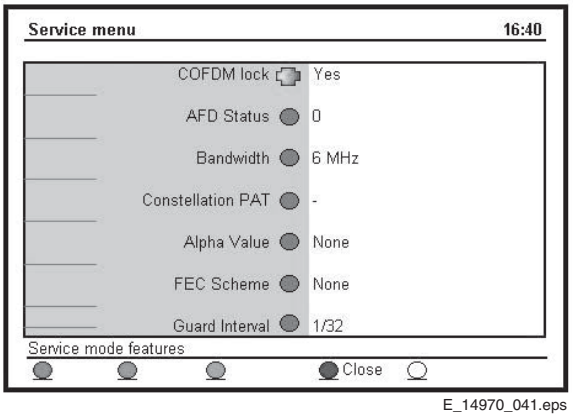
How to Activate
To activate the DCSM, put the television in its digital mode (via the A/D button on the remote control).
1. Press the “Digital” Menu button on the remote control to activate the digital user menu (“Setup”).
2. Activate the “Information” sub menu (via the “down” and “right” cursor buttons).
3. In the “Information” sub menu, press the following buttons on the remote control to activate the DCSM: “**GREEN RED YELLOW 9 7 5 9**”. Then, the “Service menu” will appear (see figures below).

Menu explanation



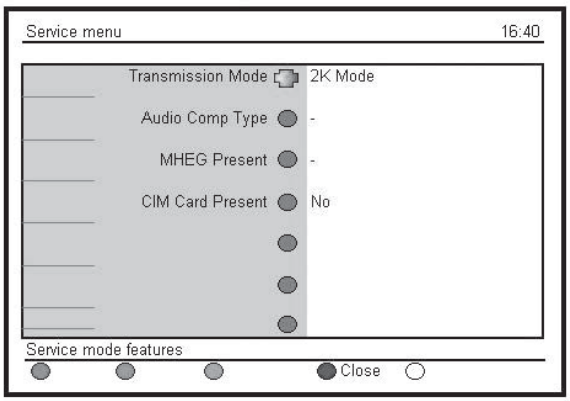
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Figure 5-5 DCSM menu - 1



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100904

Figure 5-6 DCSM menu - 2



E_14970_042.eps
090904

Figure 5-7 DCSM menu - 3

1. **Hardware version:** This indicates the version of the IBO Zapper module hardware.
2. **Application SW:** The application software version.
3. **NOR Version:** The NOR Flash image software version
4. **Digital Frequency:** The digital frequency that the set is tuned to.
5. **Bit Error Rate:** The error rate measured before the error correction algorithm circuitry. (this value gives an impression of the received signal)
6. **Tuner AGC:** Tuner AGC value.
7. **COFDM Lock:** Indication if COFDM decoder is locked.
8. **AFD Status:** Status of the Active Picture Format Descriptor.
9. **Terrestrial Delivery System Parameters:**
   - **Bandwidth:** Bandwidth of the received signal.
   - **Constellation Pattern:** Displays the signal constellation.
   - **Alpha Value:** Displays the Alpha Value.
   - **FEC Scheme:** Displays the Forward Error Correcting Scheme
   - **Guard Interval:** Displays the value for the Guard Interval.
   - **Transmission Mode:** Displays the Transmission Mode.
10. **Audio Comp Type:** Type of detected audio stream.
11. **MHEG Present:** Indicates if MHEG is present or not.
12. **CIM Card Present:** Indicates if CIM card is present or not.

How to exit
Press the **BLUE** button on the Remote Control to exit DCSM.

5.3 Problems and Solving Tips Related to CSM

5.3.1 Picture Problems

Note: The problems described below are all related to the TV settings. The procedures used to change the value (or status) of the different settings are described.

Picture too Dark or too Bright

If:
- The picture improves when you press the AUTO PICTURE button on the remote control transmitter, or
- The picture improves when you enter the Customer Service Mode,

Then:
1. Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select BRIGHTNESS.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the BRIGHTNESS value.
7. Use the MENU UP/DOWN keys to select PICTURE.
8. Press the MENU LEFT/RIGHT keys to increase or decrease the PICTURE value.
9. Press the MENU button on the remote control transmitter twice to exit the user menu.
10. The new PERSONAL preference values are automatically stored.

White Line around Picture Elements and Text

If:
The picture improves after you have pressed the AUTO PICTURE button on the remote control transmitter,

Then:
1. Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys to select SHARPNESS.
6. Press the MENU LEFT key to decrease the SHARPNESS value.
7. Press the MENU button on the remote control transmitter twice to exit the user menu.
8. The new PERSONAL preference value is automatically stored.

Snowy Picture
Check CSM line 6. If this line reads “Not Tuned”, check the following:
- Antenna not connected. Connect the antenna.
- No antenna signal or bad antenna signal. Connect a proper antenna signal.
- The tuner is faulty (in this case line 2, the Error Buffer line, will contain error number 10). Check the tuner and replace/ repair the tuner if necessary.

Black and White Picture

If:
- The picture improves after you have pressed the AUTO PICTURE button on the remote control transmitter,

Then:
1. Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys to select COLOR.
6. Press the MENU RIGHT key to increase the COLOR value.
7. Press the MENU button on the remote control transmitter twice to exit the user menu.

8. The new PERSONAL preference value is automatically stored.

Menu Text not Sharp Enough

If:

- The picture improves after you have pressed the AUTO PICTURE button on the remote control transmitter,

Then:

1. Press the AUTO PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys to select PICTURE.
6. Press the MENU LEFT key to decrease the PICTURE value.
7. Press the MENU button on the remote control transmitter twice to exit the user menu.
8. The new PERSONAL preference value is automatically stored.

5.4 Service Tools

5.4.1 ComPair

Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
2. ComPair allows very detailed diagnostics (on I^2C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I^2C commands yourself because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the Force/SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial (or RS-232) cable.
For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector(s).

The ComPair faultfinding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- Automatically (by communicating with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I^2C/UART level. ComPair can access the I^2C/UART bus of the television. ComPair can send and receive I^2C/UART commands to the microcontroller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I^2C/UART buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the microcontroller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the faultfinding tree by asking you questions *(e.g. Does the screen give a picture? Click on the correct answer: YES / NO)* and showing you examples *(e.g. Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope)*. You can answer by clicking on a link *(e.g. text or a waveform picture)* that will bring you to the next step in the faultfinding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

How to Connect

This is described in the chassis faultfinding database in ComPair.

Caution: It is compulsory to connect the TV to the PC as shown in the picture below (with the ComPair interface in between), as the ComPair interface acts as a level shifter. If one connects the TV directly to the PC (via UART), ICs will be blown!

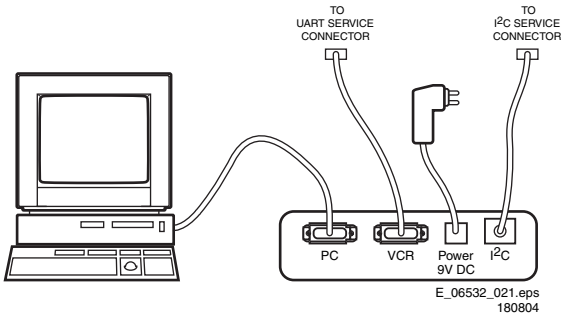


Figure 5-8 ComPair interface connection

How to Order

- ComPair order codes (EU/AP/LATAM):
- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (update): 3122 785 60070 (year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 60080 (year 2002), 3122 785 60120 (year 2003), 3122 785 60130 (year 2004).
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer (non-UK): 4822 727 21632.
- Transformer (UK): 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

Note: If you encounter any problems, contact your local support desk.

5.4.2 LVDS Tool

Introduction

This service tool (also called “ComPair Assistant 1“) may help you to identify, in case the TV does not show any picture, whether the Small Signal Board (SSB) **or** the display of a Flat TV is defective.
Furthermore it is possible to program EPLDs with this tool (Byteblaster). Read the user manual for an explanation of this feature.

Since 2004, the LVDS output connectors in our Flat TV models are standardised (with some exceptions). With the two delivered LVDS interface cables (31p and 20p) you can cover most chassis (in special cases, an extra cable will be offered).

When operating, the tool will show a small (scaled) picture on a VGA monitor. Due to a limited memory capacity, it is not possible to increase the size when processing high-resolution LVDS signals (>= 1280x768). Generally this tool is intended to determine if the SSB is working or not. Thus to determine if LVDS, RGB, and sync signals are okay.

How to Connect
Connections are explained in the user manual, which is delivered with the tool.

Note: To use the LVDS tool, you must have ComPair release 2004-1 (or later) on your PC (engine version >= 2.2.05).
For every TV type number and screen size, one must choose the proper settings via ComPair. The ComPair file will be updated regularly with new introduced chassis information.

How to Order
- LVDS tool (incl. two LVDS cables: 31p and 20p): 3122 785 90671.
- Service Manual LVDS tool: 3122 785 00810.
- LVDS cable 20p (for Telra 14-inch): 3122 785 90810.
- LVDS cable 30p (for LC4.3): 3122 785 90820.
- LVDS cable 41p-to-31p for CA1 (dual -> single LVDS): 3122 785 90830.

5.5 Error Codes

The error code buffer contains all errors detected since the last time the buffer was erased. The buffer is written from left to right. When an error occurs that is not yet in the error code buffer, it is displayed at the left side and all other errors shift one position to the right.

5.5.1 How to Read the Error Buffer

You can read the error buffer in 3 ways:
- On screen via the SAM (if you have a picture).
  Examples:
  - ERROR: 0 0 0 0 0 : No errors detected
  - ERROR: 6 0 0 0 0 : Error code 6 is the last and only detected error
  - ERROR: 9 6 0 0 0 : Error code 6 was detected first and error code 9 is the last detected (newest) error
- Via the blinking LED procedure (when you have no picture). See “The Blinking LED Procedure”.
- Via ComPair.

5.5.2 How to Clear the Error Buffer

The error code buffer is cleared in the following cases:
- By using the CLEAR command in the SAM menu:
  - To enter SAM, press the following key sequence on the remote control transmitter: “**062596**” directly followed by the OSD/STATUS button (do not allow the display to time out between entries while keying the sequence).
  - Make sure the menu item CLEAR is highlighted. Use the MENU UP/DOWN buttons, if necessary.
  - Press the MENU RIGHT button to clear the error buffer. The text on the right side of the “CLEAR” line will change from “CLEAR?” to “CLEARED”
- If the contents of the error buffer have not changed for 50 hours, the error buffer resets automatically.

Note: If you exit SAM by disconnecting the mains from the television set, the error buffer is not reset.

5.5.3 Error Codes

In case of non-intermittent faults, write down the errors present in the error buffer and clear the error buffer before you begin the repair. This ensures that old error codes are no longer present.
If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error and not the actual cause of the problem (for example, a fault in the protection detection circuitry can also lead to a protection).

Table 5-1 Error code overview

Error	Device	Error Description	Check Item	Diagram
0	Not applicable	No Error		
1	Not applicable	Mis-match of TV Hercules SW and Scaler SW	-	-
2	Not applicable	-	-	-
3	Not applicable	-	-	-
4	Genesis Scaler Flash-ROM	I^2C error while communicating with the Genesis Scaler and/or Flash-ROM is faulty/empty	7801 7B01	B7 + B8 B10
5	Scaler supply 7752	+5V protection	7752	B6
6	Not applicable	General I^2C error	1102, 7L04, 7M00	B1 + B18 + B19
7	ADC	I^2C error	7L04	B18
8	Scaler EEPROM	I^2C error while communicating with the Scaler EEPROM	7C01	B11
9	Hercules EEPROM	I^2C error while communicating with the Hercules EEPROM (NVM for TV). **Remark:** when the Hercules EEPROM is defective, the Hercules should operate with its default values.	7207	B2
10	Tuner	I^2C error while communicating with the PLL tuner	1102, F102, F104, F107	B1
11	Columbus	I^2C error while communicating with the 2D/3D combfilter Columbus	7M00	B19
12	Not applicable	-	-	-
13	HDMI Panellink Receiver/ Decoder	I^2C error while communicating with the iBoard HDMI Panellink Receiver/ Decoder (only in NAFTA and AP sets)	7D03	B12 (only in NAFTA and AP sets)
14	Scaler SDRAM	Read-write error with the Scaler SDRAM	7B01	B10
15	Not applicable	-	-	-
16	EPLD	I^2C error while communicating with EPLD	7N02	B20 + B21
17	Digital Module (only on Digital sets)	I^2C error while communicating with the Digital Module (only on Digital sets)	Digital Module (only on Digital sets)	
18	Not applicable	-	-	-

5.6 The Blinking LED Procedure

Using this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful when there is no picture.

When the SDM is entered, the front LED will blink the contents of the error-buffer:
- The LED blinks with as many pulses as the error code number, followed by a time period of 1.5 seconds, in which the LED is off.
- Then this sequence is repeated.

Any RC5 command terminates this sequence.

Example of error buffer: **12 9 6 0 0**
After entering SDM, the following occurs:
- 1 long blink of 5 seconds to start the sequence,
- 12 short blinks followed by a pause of 1.5 seconds,
- 9 short blinks followed by a pause of 1.5 seconds,
- 6 short blinks followed by a pause of 1.5 seconds,
- 1 long blink of 1.5 seconds to finish the sequence,
- The sequence starts again with 12 short blinks.

5.7 Fault Finding and Repair Tips

Notes:
- It is assumed that the components are mounted correctly with correct values and no bad solder joints.
- Before any fault finding actions, check if the correct options are set.

5.7.1 NVM Editor

In some cases, it can be handy if one directly can change the NVM contents. This can be done with the “NVM Editor” in SAM mode. With this option, single bytes can be changed.

Caution:
- **Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- **Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TV set!**
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the orgininal settings, if the new settings turn out to be incorrect.

Table 5-2 NVM editor overview

	Hex	Dec	Description
.ADR	0x000A	10	Existing value
.VAL	0x0000	0	New value
.Store	Store?		

Table 5-3 NVM Default values (option bit settings through NVM Editor in SAM Mode)

Byte Nr.	Bit	Feature/Mode	Description	42PF7520D/10	42PF5520D/10
Byte 0 174(dec)	0	QSS (LSB)	Mode of quasi split sound amplifier	1	1
	1	FMI	Connection of output of QSS amplifier	1	1
	2	HCO	EHT tracking mode	0	0
	3	HP2	Synchronization of OSD/Text display	1	1
	4	FSL	Forced slicing level for vertical sync	1	1
	5	TFR	DC transfer ratio of luminance signal	1	1
	6	OSVE	Black current measuring in overscan	0	0
	7	MVK (MSB)	(For Future Usage, as defined by software)	0	0
		Total Dec Values		59	59
		Total Hex Values		3B	3B
Byte 1 175(dec)	0	PSE	PSE	0	0
	1	OPC	OPC	0	0
	2	PRIS	PRIS	0	0
	3	CONTINUOUS FACTORY	Continuous factory mode	0	0
	4	WHITE PATTERN ON	Last color pattern status in factory mode	0	0
	5	SDM MODE	Service default mode on/off	0	0
	6	SAM MODE	Service Align mode on/off	0	0
	7	SVMA	Scavm On / Off	0	0
		Total Dec Values		0	0
		Total Hex Values		00	00
Byte 2 176(dec)	0	MUTE STATUS	Mute status	0	0
	1	TUNER AUTO MODE	Auto mode	1	1
	2	CABLE MODE	Cable/Antenna mode	0	0
	3	LAST POWER MODE	Last power status of the set	1	1
	4	CHILD LOCK MODE	Child lock enabled	0	0
	5	SURF MODE	Surf mode on/off	0	0
	6	FACTORY MODE	Factory mode on	0	0
	7	PSNS	For PAL color enhancement in ES4	1	1
		Total Dec Values		138	138
		Total Hex Values		8A	8A
Byte 3 177(dec)	0	RADIO/TV MODE	Radio mode or TV mode	0	0
	1	WAKE-UP MODE	WAKE-UP MODE	0	0
	2	HOTEL MODE	TV in Hotel mode	0	0
	3	HOTEL KBD LOCK	Keyboard locked	0	0
	4	HBL	HBL	0	0
	5	BLS	Blue stretch mode	1	1
	6	SL	SL	0	0
	7	CFA0	Comb filter On/Off	1	1
		Total Dec Values		160	160
		Total Hex Values		A0	A0
Byte 4 178(dec)	0	Signal Strength	Signal Strength Switch in MK2	0	0
	1	LPG	LPG	0	0
	2	DVD TRAY LOCK	Lock/Unlock DVD tray	0	0
	3	SCRSAVER MODE	Screen saver mode	1	1
	4	BKS	Black Stretch Mode	1	1
	5	BSD	Black Stretch Depth	1	1
	6	CRA0	Coring on SVM	1	1
	7	PIP QSS	PIP QSS	0	0
		Total Dec Values		120	120
		Total Hex Values		78	78

Byte Nr.	Bit	Feature/Mode	Description	42PF7520D/10	42PF5520D/10
Byte 5 179(dec)	0	FFI	Fast Filter	0	0
	1	NNR	No red reduction during blue stretch	1	1
	2	MUS	NTSC matrix	1	1
	3	GAM	Gamma control	1	1
	4	CBS	Control sequence of beam current limiting	0	0
	5	LLB	Low level of beam current limiter	0	0
	6	DSA	Dynamic skin tone angle area	1	1
	7	DSK	Dynamic skin tone angle on/ off	0	0
		Total Dec Values		78	78
		Total Hex Values		4E	4E
Byte 6 180(dec)	0	LTI status	LTI last status	1	1
	1	Inc_Life_Time	Inc_Life_Time	0	0
	2	PC_Mode	PC_Mode	0	0
	3	HD_Mode	HD_Mode	0	0
	4	Tact_Switch	Tact_Switch	0	0
	5	Set_In_Special_Stby	Set_In_Special_Stby	0	0
	6	Hotel_OSDDisplay	Hotel_OSDDisplay	0	0
	7	Hotel_MonitorOut	Hotel_MonitorOut	0	0
		Total Dec Values		1	1
		Total Hex Values		01	01
Byte 7 181(dec)	0	Hotel_IconMode	Hotel_IconMode	0	0
	1	DBE	DBE	1	1
	2	SD	SD	0	0
	3	Set_in_PC_Sleep_Mode	Set_in_PC_Sleep_Mode	0	0
	4	Reserved	Reserved	0	0
	5	Reserved	Reserved	0	0
	6	Reserved	Reserved	0	0
	7	Reserved	Reserved	0	0
		Total Dec Values		2	2
		Total Hex Values		02	02

5.7.2 Load Default NVM Values

In case a blank NVM is placed or when the NVM content is corrupted, default values can be downloaded into the NVM. (For empty NVM replacement, short the SDM with a jumper and apply the mains voltage. Remember to remove the jumper after the reload is completed). After the default values are downloaded, it will be possible to start up and to start aligning the TV set. This is no longer initiated automatically; to initiate the download the following action has to be performed:

1. Switch “off” the TV set by disconnecting the AC Power plug.
2. Short circuit the SDM jumpers (keep short-circuited).
3. Press P+ or Ch+ on the local keyboard (and keep it pressed).
4. Switch on the TV set via the AC Power plug.
5. Keep pressing the P+/Ch+ button until the set has started up and the SDM is shown.

Alternative method:

1. Go to SAM.
2. Select NVM Editor (not SC NVM Editor).
3. Select ADR (address) to 1 (dec).
4. Change the VAL (value) to 170 (dec).
5. Store the value.
6. Disconnect the mains plug and wait for a few seconds.
7. Reconnect the mains plug and wait until the set goes into its standby mode (red LED lights up).
8. Restart the set.

5.7.3 Tuner and IF

No Picture in RF Mode, but there is a Noise Raster

1. Check whether picture is present in AV. If not, go to Video processing troubleshooting section.
2. If present, check if the Option settings are correct.
3. Check if all the supply voltages are present (3.3/5/8/12/33 V).
4. Check if the I^2C lines are working correctly (3.3 V).
5. Manually store a known channel and check if there is IF output at Tuner pin 11.
6. Check the tuning DC voltage at pin 2 of the Tuner. The DC voltage should vary according to the frequency/channel being chosen.
7. If the tuning voltage is OK, check the tuner output, pin 11.
8. If it has no output, the Tuner may have a defect. Change the Tuner.

Sound in Picture Problem for L' System (rolling horizontal lines)

1. Check whether AGC L' in SAM mode is set to 0.
2. If yes, align the set to correct value.

Required System is not Selected Correctly

Check whether a Service jumper (#4204 & 4205, 0805 size) is present. If yes, remove it.

5.7.4 Video Processing

No Power

1. Check +12 V and 3V3 at position 1J02.
2. If no supply, check the connector 1J02.
3. If it is correct, check the power supply board.

Power Supply is Correct, but no Green LED

1. Check if the connectors 1K00 are properly inserted.
2. If they are inserted correctly, check if the 3V3 is present.

No Picture Display (blank screen with correct sound output)

1. Check whether the user menu is visible.
2. If the user menu is OK, activate teletext mode.
3. If teletext is OK, the problem is in the ADC (B18) & Columbus 3D combfilter (B19), if present (depending on model, see also paragraph “Teletext Path” in chapter 9).
4. If the user menu is not visible, check if the LCD panel backlight is ON.
5. If the backlight is OFF, the problem is in the power supply board or LCD panel. Also check pin 12 (LAMP_ON_OFF) of 1J02. It should be HIGH during normal operation.

Note: For faultfinding purposes, it is important to know the following: in Pixel Plus and Digital Crystal Clear models, which have an ADC (B18) and Columbus 3D combfilter (B19), the digital input of the scaler is used for the digital video path (Hercules output), whereas the analogue RGB input (analogue input of the scaler) is only used for teletext. This means that no mixed mode (video plus teletext simultaneously) is possible. If there is sound and teletext, but no video and user menu (blank screen), the digital path (Hercules - ADC - Columbus - Scaler) is faulty. If there is sound but no teletext, the back-end part (Scaler - LCD panel) is faulty. In Crystal Clear models, which do not have an ADC and Columbus, the RGB path (analogue input of scaler) is used for both video and teletext.

No TV, but PC is Present

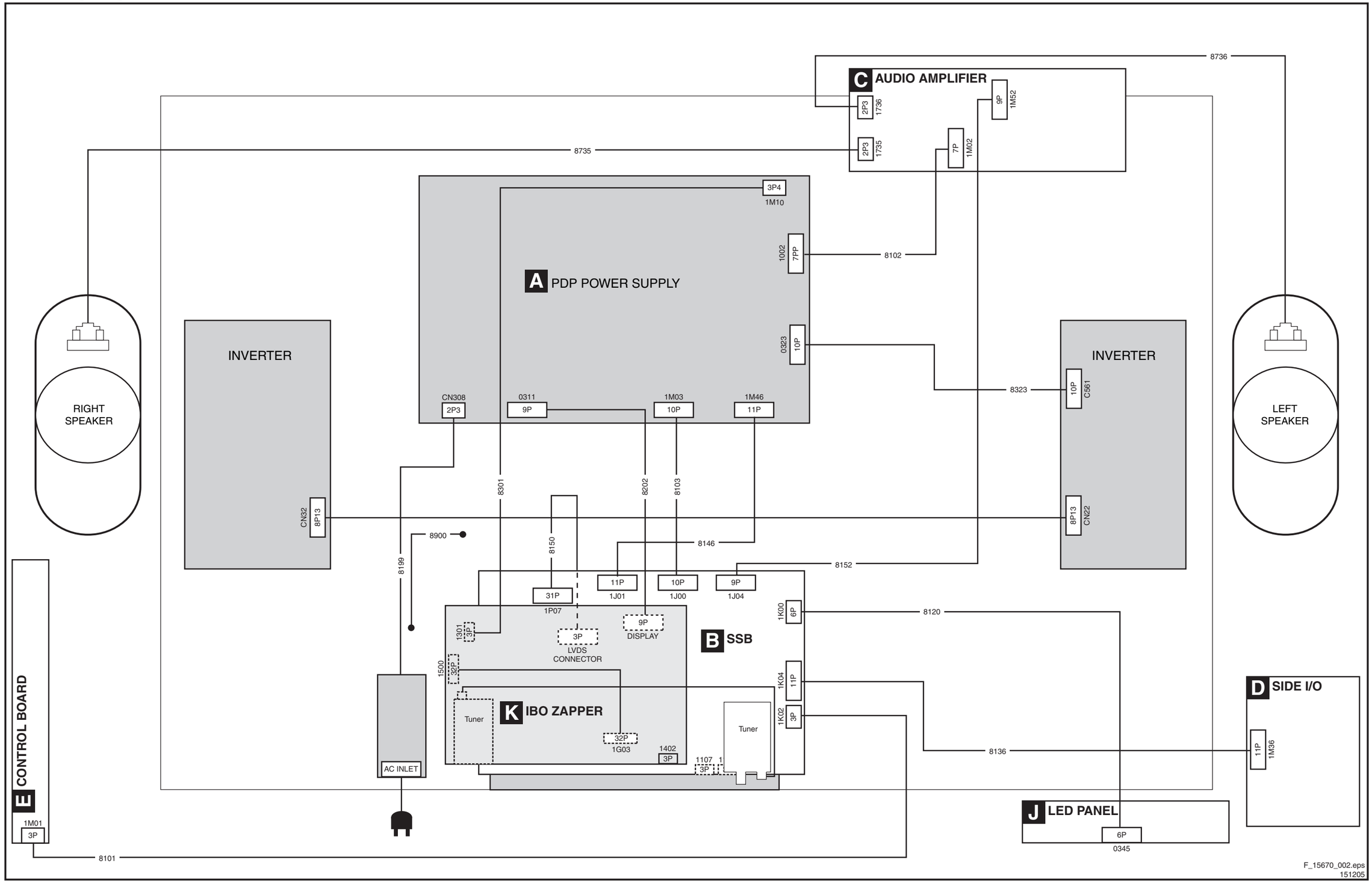
1. Check if Hsync_SDTV and Vsync_SDTV are present at pin 1 & pin13 of 7E03.
2. If they are present, check teletext output.
3. If there is no teletext output, the IC TDA150xx may be defect.

5.7.5 Power Supply

In case the power supply does not work, check (apart from the obvious fuse-check) if the oscillators in IC7001 and IC7U01 are working. If not, replace the ICs.

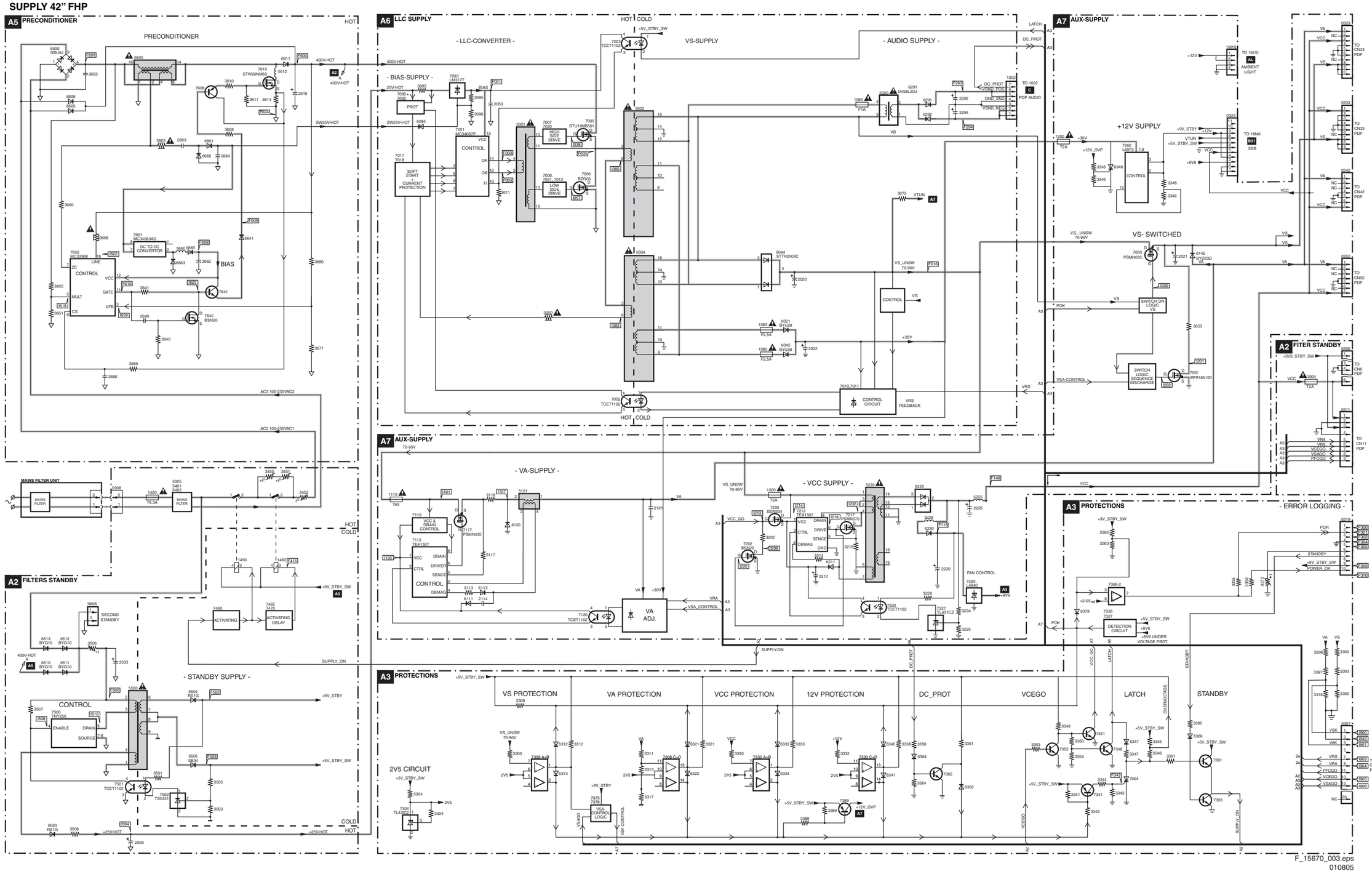
6. Block Diagrams, Test Point Overviews, and Waveforms

Wiring Diagram



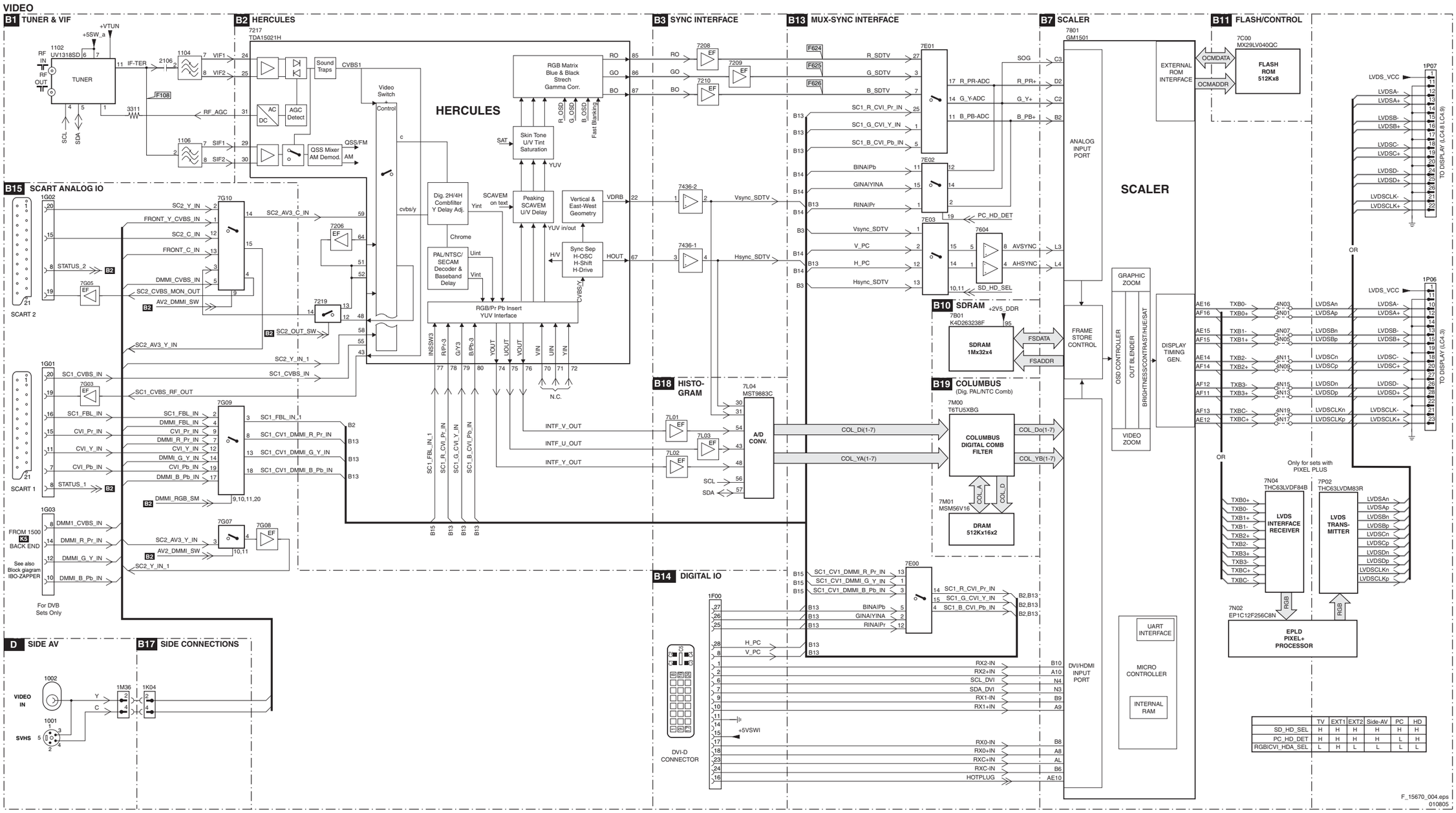
Block Diagram Supply

SUPPLY 42" FHP



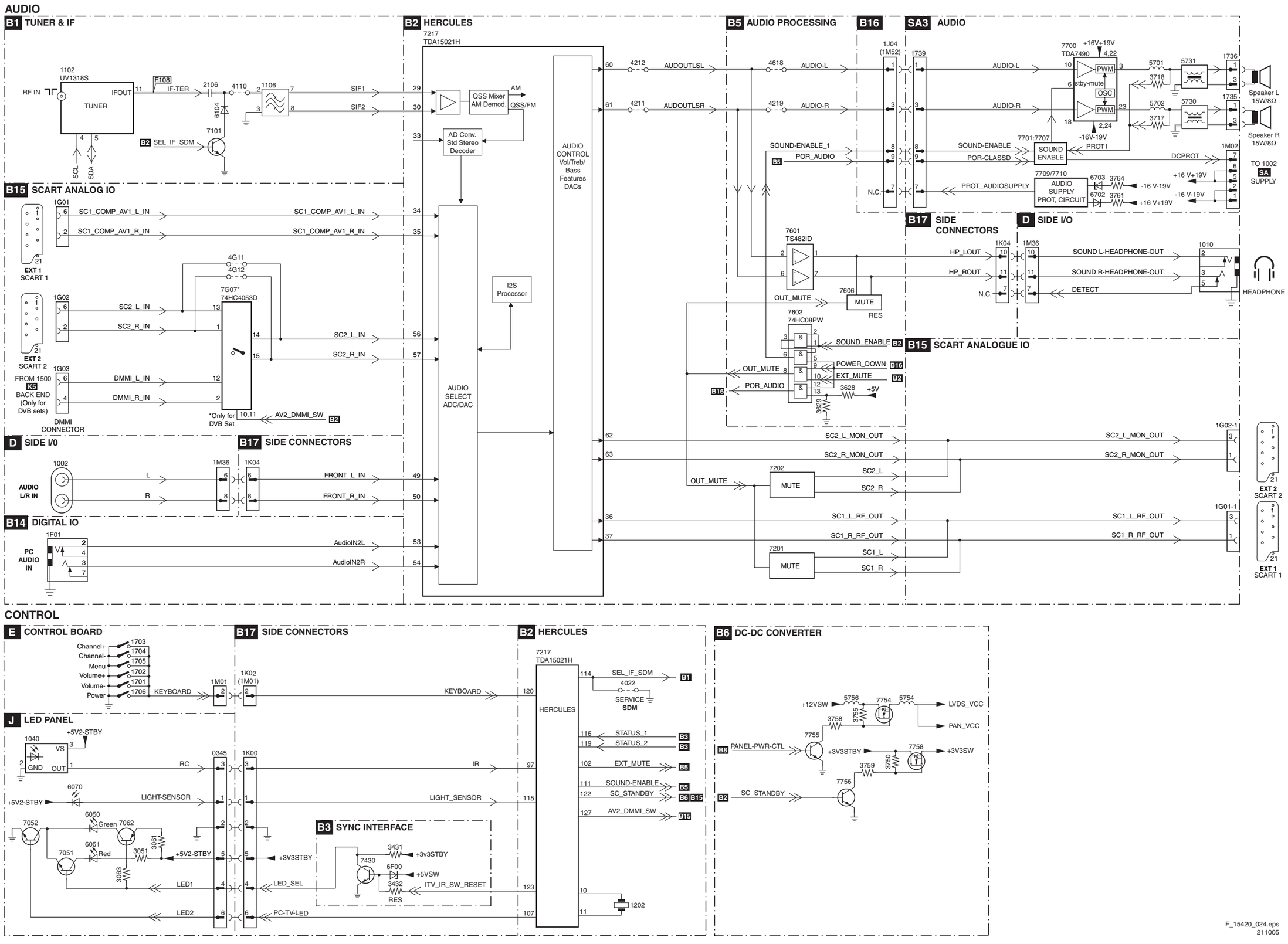
F_15670_003.eps
010805

Block Diagram Video



	TV	EXT1	EXT2	Side-AV	PC	HD
SD_HD_SEL	H	H	H	H	H	H
PC_HD_DET	H	H	H	H	L	H
RGB|CVI_HDA_SEL	L	H	L	L	L	L

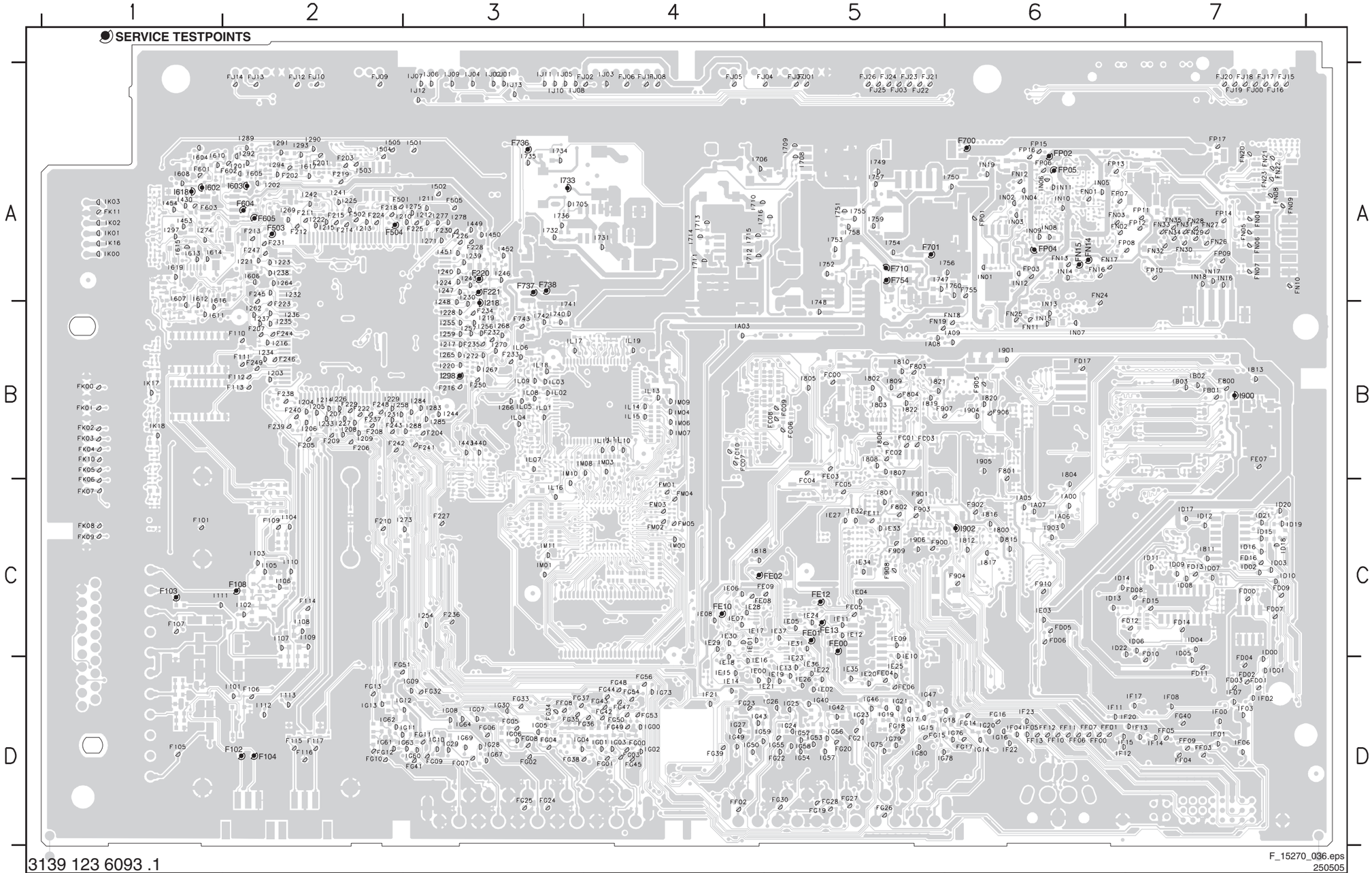
Block Diagram Audio



F_15420_024.eps
211005

Testpoint Overview Small Signal Board 6093.1

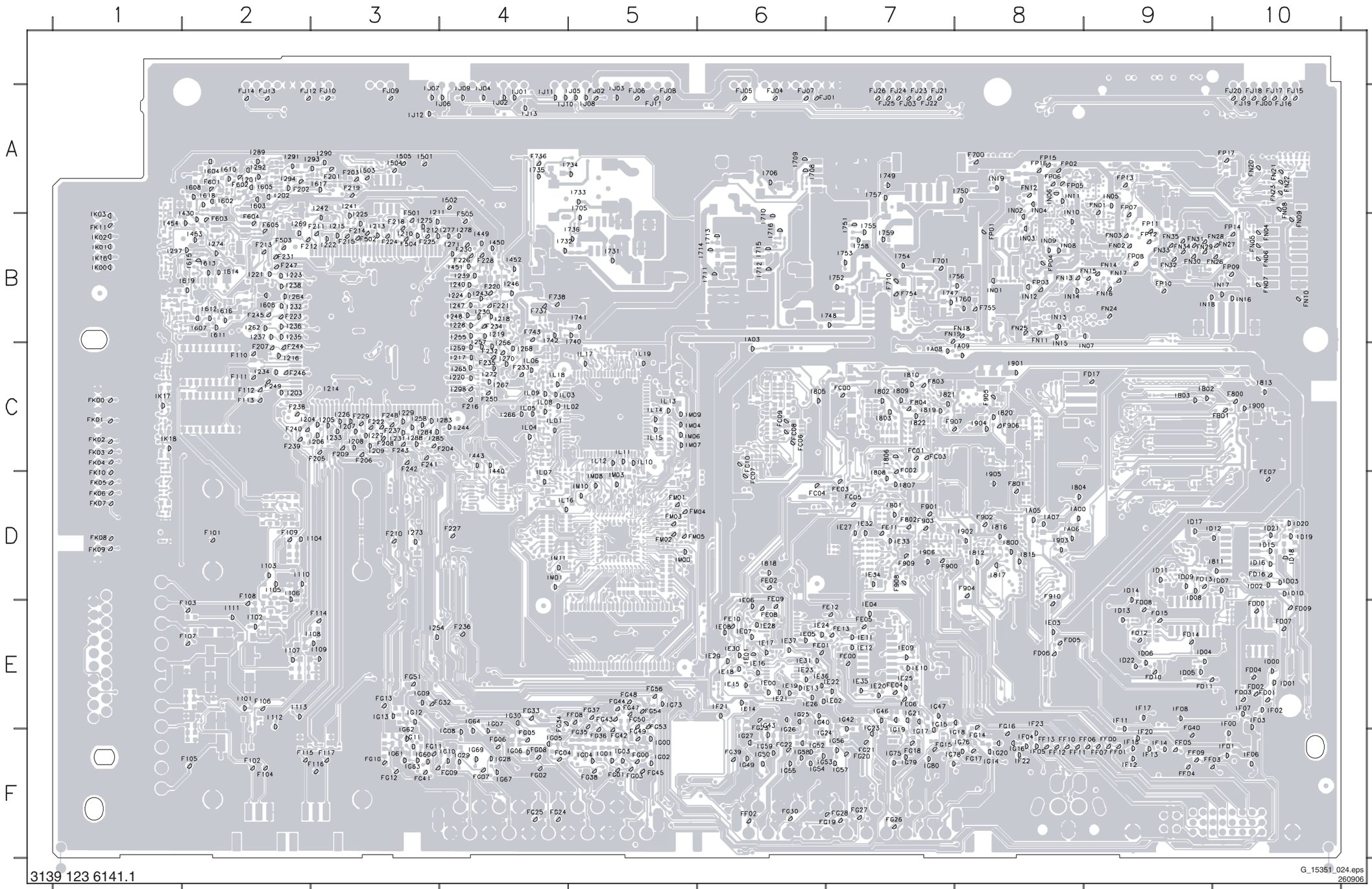
F101 C1 F117 D2 F216 B3 F233 B3 F249 B2 ***F737 A3*** F906 B6 FC10 B4 FD15 C7 ***FE13 C5*** FG01 D4 FG17 D6 FG35 D3 FG53 D4 FJ13 A2 FK02 B1 FN02 A6 FN18 B6 FN34 A7 FP15 A6 I201 A2 I217 B3 I233 B2 I255 B3 I274 A1 I430 A1 I604 A1 I706 A4 I740 B3 IE15 D4 IG69 D3
F102 D2 F201 A2 F218 A2 F234 B3 F250 B3 ***F738 A3*** F907 B5 FD00 C7 FD16 C7 FF00 D6 FG02 D3 FG18 D5 FG36 D4 FG54 D4 FJ14 A2 FK03 B1 FN03 A6 FN19 B5 FN35 A7 FP16 A6 I202 A2 ***I218 A3*** I234 B2 I256 B3 I275 A3 I440 B3 I605 A2 I708 A5 I741 B3 IE16 C4 IG73 D4
F103 C1 F202 A2 F219 A2 F235 B3 F501 A2 F743 B3 F908 C5 FD01 D7 FD17 B6 FF01 D6 FG03 D4 FG19 D5 FG37 D3 FG56 D4 FJ15 A7 FK04 B1 FN04 A7 FN20 A7 FP01 A6 FP17 A7 I203 B2 I219 B3 I235 B2 I257 B3 I277 A3 I443 B3 I606 A2 I709 A5 I742 B3 IE17 C4 IG75 D5
F104 D2 F203 A2 ***F220 A3*** F236 C3 F502 A2 ***F754 A5*** F909 C5 FD02 D7 ***FE00 C5*** FF02 D4 FG04 D3 FG20 D5 FG38 D3 FJ00 A7 FJ16 A7 FK05 B1 FN05 A7 FN21 A7 ***FP02 A6*** I101 D2 I204 B2 I220 B3 I236 B2 I258 B2 I278 A3 I449 A3 I607 A1 I710 A4 I747 A5 IE18 C4 IG76 D6
F105 D1 F204 B3 ***F221 A3*** F237 B2 ***F503 A2*** F755 A6 F910 C6 FD03 D7 ***FE01 C5*** FF03 D7 FG05 D3 FG21 D5 FG39 D4 FJ01 A5 FJ17 A7 FK06 B1 FN06 A7 FN22 A7 FP03 A6 I102 C2 I205 B2 I221 A2 I237 B2 I259 B3 I283 B3 I450 A3 I608 A1 I711 A4 I748 A5 IE19 D5 IG78 D5
F106 D2 F205 B2 F222 B2 F238 B2 ***F504 A2*** F800 B7 FB01 B7 FD04 C7 ***FE02 C4*** FF04 D7 FG06 D3 FG22 D5 FG40 D7 FJ02 A4 FJ18 A7 FK07 C1 FN07 A7 FN23 A7 ***FP04 A6*** I103 C2 I206 B2 I222 A2 I238 A2 I262 B2 I284 B3 I451 A3 I610 A1 I712 A4 I749 A5 IE20 D5 IG79 D5
F107 C1 F206 B2 F223 B2 F239 B2 F505 A3 F801 B6 FC00 B5 FD05 C6 FE03 B5 FF05 D7 FG07 D3 FG23 D4 FG41 D3 FJ03 A5 FJ19 A7 FK08 C1 FN08 A7 FN24 A6 ***FP05 A6*** I104 C2 I207 B2 I223 A2 I239 A3 I264 A2 I285 B3 I452 A3 I611 B1 I713 A4 I750 A6 IE21 D5 IG80 D5
F108 C2 F207 B2 F224 A2 F240 B2 F601 A1 F802 C5 FC01 B5 FD06 C6 FE04 D5 FF06 D6 FG08 D3 FG24 D3 FG42 D4 FJ04 A5 FJ20 A7 FK09 C1 FN09 A7 FN25 B6 FP06 A6 I105 C2 I208 B2 I224 A3 I240 A3 I265 B3 I288 B3 I453 A1 I612 A1 I714 A4 I751 A5 IE22 D5 IJ01 A3
F109 C2 F208 B2 F225 A3 F241 B3 F602 A2 F803 B5 FC02 B5 FD07 C7 FE05 C5 FF07 D6 FG09 D3 FG25 D3 FG43 D4 FJ05 A4 FJ21 A5 FK10 B1 FN10 A7 FN26 A7 FP07 A6 I106 C2 I209 B2 I225 A2 I241 A2 I266 B3 I289 A2 I454 A1 I613 A1 I715 A4 I752 A5 IE23 C5 IJ02 A3
F110 B2 F209 B2 F226 A3 F242 B2 F603 A1 F804 B5 FC03 B5 FD08 C7 FE06 D5 FF08 D3 FG10 D2 FG26 D5 FG44 D4 FJ06 A4 FJ22 A5 FK11 A1 FN11 B6 FN27 A7 FP08 A7 I107 C2 I210 A3 I226 B2 I242 A2 I267 B3 I290 A2 I501 A3 I614 A1 I716 A4 I753 A5 IE24 C5 IJ03 A4
F111 B2 F210 C2 F227 C3 F243 B2 F604 A2 F900 C5 FC04 B5 FD09 C7 FE07 B7 FF09 D7 FG11 D3 FG27 D5 FG45 D4 FJ07 A5 FJ23 A5 FM01 C4 FN12 A6 FN28 A7 FP09 A7 I108 C2 I211 A3 I227 B2 I243 A3 I268 B3 I291 A2 I502 A3 I615 A1 I731 A4 I754 A5 IE25 D5 IJ04 A3
F112 B2 F211 A2 F228 A3 F244 B2 F605 A2 F901 C5 FC05 C5 FD10 C7 FE08 C4 FF10 D6 FG12 D2 FG28 D5 FG47 D4 FJ08 A4 FJ24 A5 FM02 C4 FN13 A6 FN29 A7 FP10 A7 I109 C2 I212 A3 I228 B3 I244 B3 I269 A2 I292 A2 I503 A2 I616 A1 I732 A3 I755 A5 IE26 D5 IJ05 A3
F113 B2 F212 A2 F229 B2 F245 A2 F700 A6 F902 C6 FC06 B5 FD11 D7 FE09 C5 FF11 D6 FG13 D2 FG30 D5 FG48 D4 FJ09 A2 FJ25 A5 FM03 C4 ***FN14 A6*** FN30 A7 FP11 A7 I110 C2 I213 A2 I229 B2 I246 A3 I270 B3 I293 A2 I504 A2 I617 A2 ***I733 A3*** I756 A6 IE27 C5 IJ06 A3
F114 C2 F213 A2 ***F230 A3*** F246 B2 F701 A5 F903 C5 FC07 B4 FD12 C7 ***FE10 C4*** FF12 D6 FG14 D6 FG32 D3 FG49 D4 FJ10 A2 FJ26 A5 FM04 C4 ***FN15 A6*** FN31 A7 FP12 A7 I111 C1 I214 B2 I230 A3 I247 A3 I271 A3 I294 A2 I505 A2 ***I618 A1*** I734 A3 I757 A5 IE28 C4 IJ07 A3
F115 D2 F214 A2 F231 A2 F247 A2 F710 A5 F904 C6 FC08 B5 FD13 C7 FE11 C5 FF13 D6 FG15 D5 FG33 D3 FG50 D4 FJ11 A4 FK00 B1 FM05 C4 FN16 A6 FN32 A7 FP13 A6 I112 D2 I215 A2 I231 B2 I248 A3 I272 B3 I297 A1 ***I602 A1*** I619 A1 I735 A3 I758 A5 IE29 C4 IJ08 A3
F116 D2 F215 A2 F232 B3 F248 B2 F736 A3 F905 B6 FC09 B5 FD14 C7 ***FE12 C5*** FG00 D4 FG16 D6 FG34 D3 FG51 C2 FJ12 A2 FK01 B1 FN01 A6 FN17 A6 FN33 A7 FP14 A7 I113 D2 I216 B2 I232 A2 I254 C3 I273 C3 ***I298 B3*** ***I603 A2*** I705 A3 I736 A3 I759 A5 IE30 C4 IJ09 A3
I760 A6 IE31 C5 IJ10 A3
I800 C6 IE32 C5 IJ11 A3
I801 C5 IE33 C5 IJ12 A3
I802 B5 IE34 C5 IJ13 A3
I803 B5 IE35 D5 IK00 A1
I804 B6 IE36 C5 IK01 A1
I805 B5 IE37 C5 IK02 A1
I806 B5 IF00 D7 IK03 A1
I807 B5 IF01 D7 IK16 A1
I808 B5 IF02 D7 IK17 B1
I809 B5 IF03 D7 IK18 B1
I810 B5 IF04 D6 IL01 B3
I811 C7 IF05 D6 IL02 B3
I812 C6 IF06 D7 IL03 B3
I813 B7 IF07 D7 IL04 B3
I815 C6 IF08 D7 IL05 B3
I816 C6 IF11 D6 IL06 B3
I817 C6 IF12 D6 IL07 B3
I818 C4 IF13 D7 IL08 B3
I819 B5 IF14 D7 IL09 B3
I820 B6 IF15 D6 IL10 B4
I821 B5 IF17 D7 IL11 B4
I822 B5 IF20 D7 IL12 B4
I900 B7 IF21 D4 IL13 B4
I901 B6 IF22 D6 IL14 B4
I902 C6 IF23 D6 IL15 B4
I903 C6 IG00 D4 IL16 C3
I904 B6 IG01 D4 IL17 B3
I905 B6 IG02 D4 IL18 B3
I906 C5 IG03 D4 IL19 B4
IA00 C6 IG04 D3 IM00 C4
IA03 B4 IG05 D3 IM01 C3
IA05 C6 IG06 D3 IM03 B4
IA06 C6 IG07 D3 IM04 B4
IA07 C6 IG08 D3 IM06 B4
IA08 B5 IG09 D3 IM07 B4
IA09 B6 IG10 D3 IM08 B4
IB02 B7 IG11 D3 IM09 B4
IB03 B7 IG12 D3 IM10 B3
ID00 C7 IG13 D2 IM11 C3
ID01 D7 IG14 D6 IN01 A6
ID02 C7 IG15 D5 IN02 A6
ID03 C7 IG16 D6 IN03 A6
ID04 C7 IG17 D5 IN04 A6
ID05 C7 IG18 D6 IN05 A6
ID06 C7 IG19 D5 IN06 A6
ID07 C7 IG20 D6 IN07 B6
ID08 C7 IG21 D5 IN08 A6
ID09 C7 IG23 D5 IN09 A6
ID10 C7 IG24 D5 IN10 A6
ID11 C7 IG25 D5 IN11 A6
ID12 C7 IG26 D5 IN12 A6
ID13 C6 IG27 D4 IN13 B6
ID14 C6 IG28 D3 IN14 A6
ID15 C7 IG29 D3 IN15 B6
ID16 C7 IG30 D3 IN16 A7
ID17 C7 IG40 D5 IN17 A7
ID18 C7 IG42 D5 IN18 A7
ID19 C7 IG43 D4 IN19 A6
ID20 C7 IG46 D5
ID21 C7 IG47 D5
ID22 C6 IG49 D4
IE00 D4 IG50 D4
IE01 C4 IG52 D5
IE02 D5 IG53 D5
IE03 C6 IG54 D5
IE04 C5 IG55 D5
IE05 C5 IG56 D5
IE06 C4 IG57 D5
IE07 C4 IG58 D5
IE08 C4 IG59 D4
IE09 C5 IG60 D3
IE10 C5 IG61 D2
IE11 C5 IG62 D2
IE12 C5 IG63 D3
IE13 D5 IG64 D3
IE14 D4 IG67 D3



3139 123 6093 .1

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Testpoint Overview Small Signal Board 6141.1

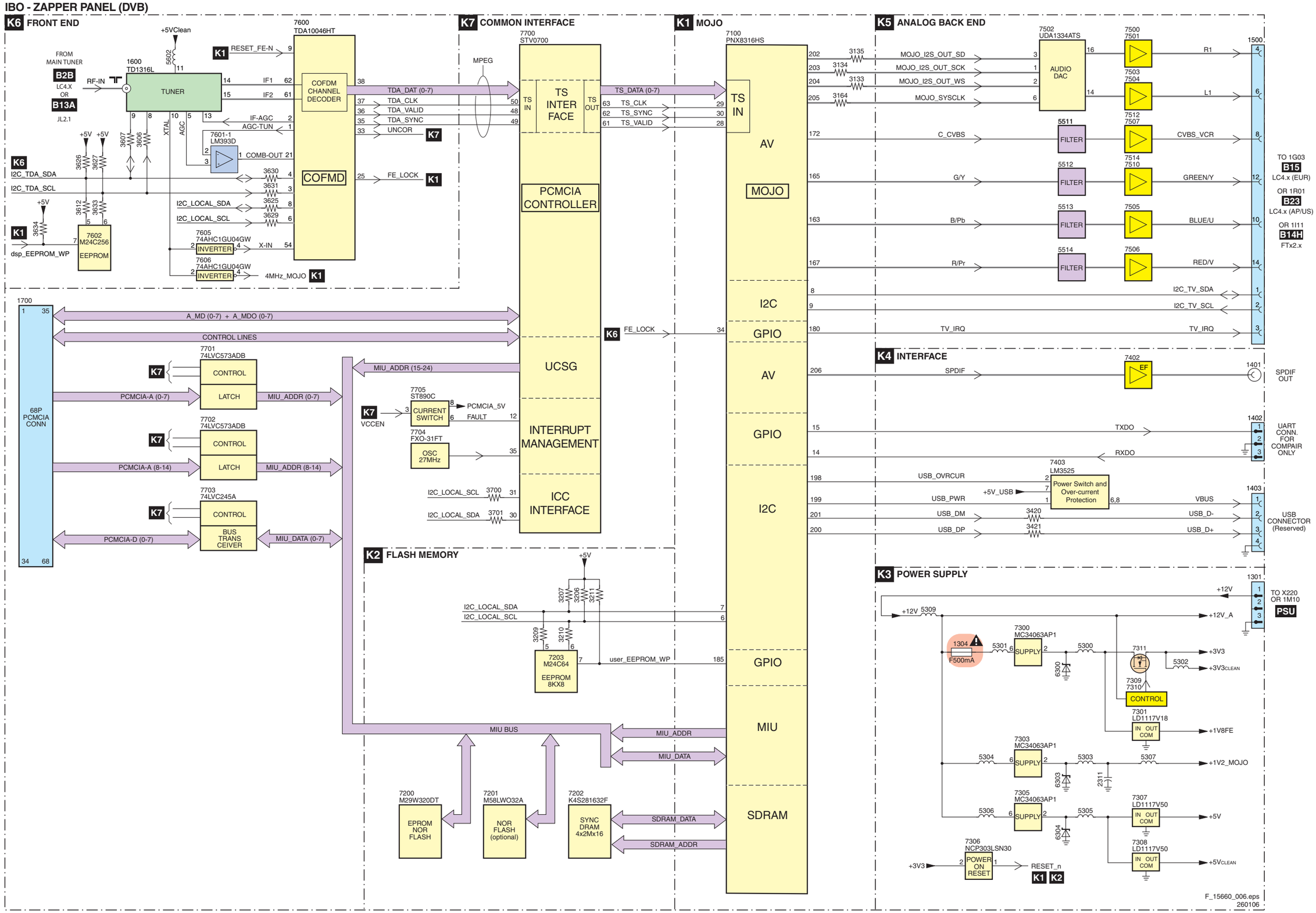


3139 123 6141.1

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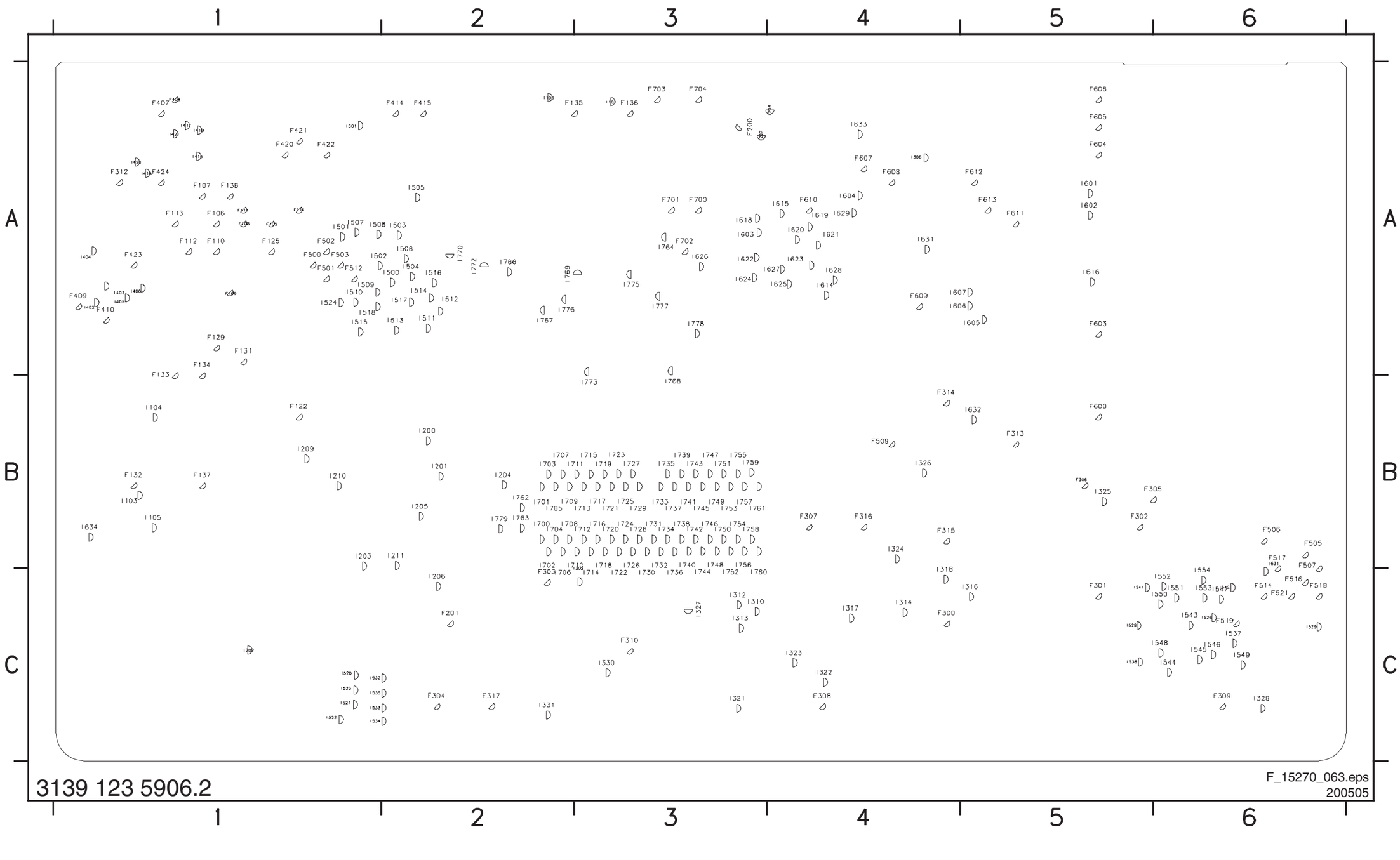
Block Diagram IBO Zapper

IBO - ZAPPER PANEL (DVB)

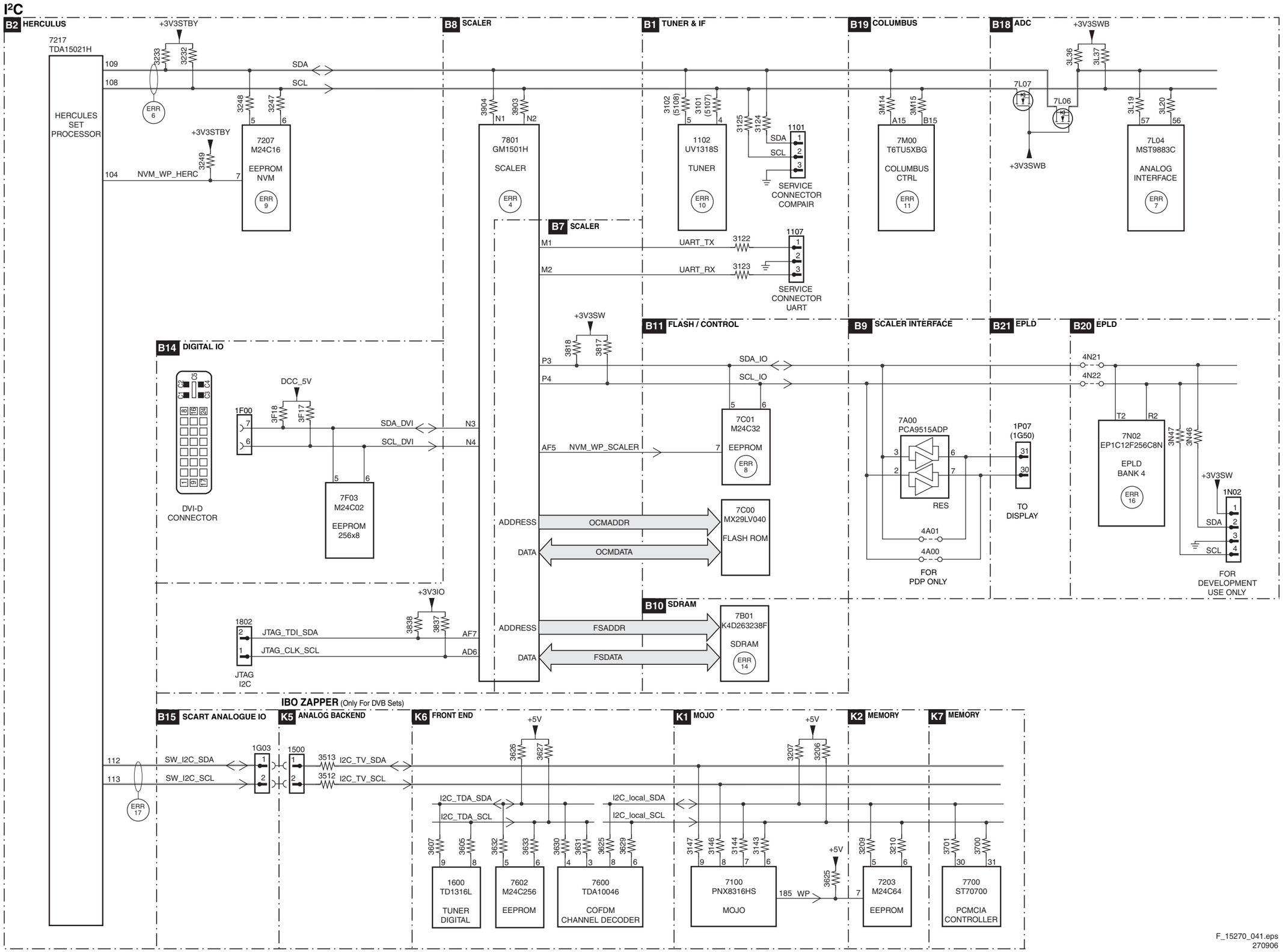


Testpoint Overview IBO Zapper (Bottom Side)

F105 A1
F106 A1
F107 A1
F108 A1
F109 A1
F110 A1
F111 A1
F112 A1
F113 A1
F114 A1
F122 B1
F125 A1
F129 A1
F131 A1
F132 B1
F133 A1
F134 A1
F135 A2
F136 A3
F137 B1
F138 A1
F200 A3
F201 C2
F300 C4
F301 C5
F302 B5
F303 C2
F304 C2
F305 B5
F306 B5
F307 B4
F308 C4
F309 C6
F310 C3
F312 A1
F313 B5
F314 B4
F315 B4
F316 B4
F317 C2
F407 A1
F408 A1
F409 A1
F410 A1
F414 A2
F415 A2
F420 A1
F421 A1
F422 A1
F423 A1
F424 A1
F500 A1
F501 A1
F502 A1
F503 A1
F504 A1
F505 B6
F506 B6
F507 B6
F509 B4
F510 A1
F512 A1
F514 C6
F516 C6
F517 B6
F518 C6
F519 C6
F521 C6
F600 B5
F603 A5
F604 A5
F605 A5
F606 A5
F607 A4
F608 A4
F609 A4
F610 A4
F611 A5
F612 A5
F613 A5
F700 A3
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F702 A3
F703 A3
F704 A3
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I104 B1
I105 B1
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I201 B2
I202 C1
I203 B1
I204 B2
I205 B2
I206 C2
I207 A3
I208 A4
I209 B1
I210 B1
I211 B2
I301 A1
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I306 A4
I310 C3
I312 C3
I313 C3
I314 C4
I316 C5
I317 C4
I318 C4
I321 C3
I322 C4
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I326 B4
I327 C3
I328 C6
I330 C3
I331 C2
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I503 A2
I504 A2
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I506 A2
I507 A1
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I509 A1
I510 A1
I511 A2
I512 A2
I513 A2
I514 A2
I515 A1
I516 A2
I517 A2
I518 A1
I520 C1
I521 C1
I522 C1
I523 C1
I524 A1
I526 C6
I528 C5
I529 C6
I531 B6
I532 C1
I533 C1
I534 C5
I535 C6
I537 C6
I538 C5
I541 C5
I542 C6
I543 C6
I544 C6
I545 C6
I546 C6
I547 C6
I548 C6
I549 C6
I550 C6
I551 C6
I552 C6
I553 C6
I554 C6
I601 A5
I602 A5
I603 A3
I604 A4
I605 A5
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I626 A4
I627 A4
I628 A4
I629 A4
I631 B5
I632 A4
I633 A4
I634 B1
I700 B2
I701 B2
I702 B2
I703 B2
I704 B2
I705 B2
I706 C2
I707 B2
I708 B2
I709 B2
I710 B3
I711 B3
I712 B3
I713 B3
I714 C3
I715 B3
I716 B3
I717 B3
I718 B3
I719 B3
I720 B3
I721 B3
I722 C3
I723 B3
I724 B3
I725 B3
I726 B3
I727 B3
I728 B3
I729 B3
I730 C3
I731 B3
I732 B3
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I734 B3
I735 B3
I736 C3
I737 B3
I738 B3
I739 B3
I740 B3
I741 B3
I742 B3
I743 B3
I744 C3
I745 B3
I746 B3
I747 B3
I748 B3
I749 B3
I750 B3
I751 B3
I752 C3
I753 B3
I754 B3
I755 B3
I756 B3
I757 B3
I758 B3
I759 B3
I760 C3
I761 B3
I762 B2
I763 B2
I764 A3
I766 A2
I767 A2
I768 B3
I769 A2
I770 A2
I772 A2
I773 B3
I775 A3
I776 A2
I777 A3
I778 A3
I779 B2



I2C Overview



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Supply Voltage Overview

SUPPLY LINE OVERVIEW

SUPPLY PANEL (PSU)

1M46 — 1M03 — 1M10 — 1002

TO 1301 K3 POWER SUPPLY

TO 1M02 C AUDIO AMPLIFIER

B16 TOP CONNECTORS

MFD SUPPY: 1J02 — 1J03 VP — N.C. — +3V3STBY

5J03 +12VUNREG → B6

POWER_DOWN, STANDBY, BACKLIGHT_CTRL, LAMP_ON_OFF — RES

UFD SUPPY: 1J01 (1M46) — 1J07 +12VUFD — 1J08 +5V_UFD → +5V_UFD B5,B6,B9 — 4J01

UFD CONTROL: 1J00 (1M03)

BACKLIGHT_CTRL — N.C.
LAMP_ON_OFF — N.C.
FAN_SPEED — N.C.
STANDBY — B9
PROTECT_AUD — N.C.
POWER_UP_OK — B7

B1 TUNER & IF

+5VSW → +5VSW
5102 +5VSW_a
5103 +5VSW_b
+3V3STBY → +3V3STBY

B2 HERCULES

+3V3STBY → +3V3STBY
3265 7215 +1V8_A
3264 7216-1
3263 7217 +1V8_B
3262 7216-2
HERCULES
+5VSW → +5VSW
+8VSW_TV → +8VSW_TV

B3 SYNC INTERFACE

+3V3STBY → +3V3STBY
+3V3SW → +3V3SW
+5VSW → +5VSW

B4 AUDIO DELAY LINE (OPTIONAL)

+5VSWI → +5VSWI
5501 +5VD

B5 AUDIO PROCESSING

+3V3SW → +3V3SW
+3V3STBY → +3V3STBY
+5VSW → +5VSW
+5V (Only UFD) → +5V

B6 DC-DC CONVERTER

+12VUNREG → +12VUNREG
+12VSW
7738 IN OUT COM — 5738 — +8VSW_TV
7752 DC/DC Converter 5753 — 5752 — 5754 — +5VSWI
6708
5709
7730 PWR REG — 5730 — 5733 — 6735 +VTUN — 5737 +5VSW

(Only LCD)
7754 — 5757 — PAN+VCC
5700 LVDS_VCC
PANEL-PWR-CTL

(Only UFD)
7710 IN OUT COM — 5712 — +5V
7708 IN OUT COM — 5704 — +3V3STBY

N.C. +3V3STBY — 7758 — +3V3SW
SC_STANDBY

B7 SCALER

+1V8_CORE → +1V8_CORE
+2V5_DDR → +2V5_DDR
+3V3SW → +3V3SW
+3V3_IO → +3V3_IO
+3V3_PLL → +3V3_PLL

B8 SCALER

+3V3SW → +3V3SW
5900 3V3_PLL
5901 3V3_ADC
5902 3V3_DVI
5903 3V3_IO
5904 3V3_LBADC
5905 3V3_LVDSA
5906 3V3_LVDSB
5907 3V3_LVDS
7900 IN OUT COM — 5908 +2V5_DDR
7901 IN OUT COM — +1V8
5909 +1V8_ADC
5910 +1V8_DV1
5911 +1V8_CORE

B9 SCALER INTERFACE

+3V3SW → +3V3SW
+3V3STBY → +3V3STBY
+5VSWI → +5VSWI
+5V → +5V

B10 SDRAM

+2V5_DDR → +2V5_DDR
3B01 FSVREF

B11 FLASH / CONTROL

+3V3_IO → +3V3_IO
+3V3SW → +3V3SW

B12 HDMI (Not for EUR Sets)

+3V3SW → +3V3SW
+5VHDMI → +5VHDMI

B13 MUX-SYNC INTERFACE

+3V3SW → +3V3SW
+5VSWI → +5VSWI

B14 DIGITAL IO (Only for EUR Sets)

+5VSWI → +5VSWI
6F00 5F03 DDC_5V
1F00 — 3F20 6F01 — DVI_5V
DVI

B15 SCART ANALOGUE IO (Only for EUR Sets)

+5VSW → +5VSW

B17 SIDE CONNECTORS

+3V3STBY → +3V3STBY
1K00 B17 — 5K00 — +3V3STBY_1 — 1K00 5 — 0345 J
+5VSW → +5VSW
5K01 — +5VSW_1 — 1K01 7

B18 ADC

+5VSWIA → +5VSWIA
7K05 IN OUT COM
+3V3SWB

B19 COLUMBUS

+3V3SW → +3V3SW
5M03 — +3V3SWA
+5VSWI → +5VSWI
5M04 — +5VSWIA

B20 EPLD

+3V3SW → +3V3SW
+3V3-IO → +3V3-IO

B21 EPLD

+3V3SW → +3V3SW
5P01 — 7P01 IN OUT COM — +3V3-IO
1V5
5P02 — 1V5-PLL
5P03 — 1V5-INT
LVDS_VCC → LVDS_VCC

B22 DIGITAL IO (Not for EUR Sets)

1Q03 HDMI 18 — +5VSW
1870 VGA 9 — 3Q16 6Q16 5Q16 — DDC_5V
10 — 3Q17 3Q18 — +5VSWI → +5VSWI

B23 CINCH ANALOGUE (Not for EUR Sets)

+5VSW → +5VSW

C AUDIO AMPLIFIER

1M02 1 — -19-16V
2 — 5708 — -19-16VS1
5714 — -19-16VS2
7702 — 5701 — VDDOPAMP
5 — +19-16V
6 — 5705 — +19-16VS1
5709 — +19-16VS2

D SIDE I/0

1M36 7 — +5VSW
1K01 B17

J LED PANEL

0345 5 — +5V2-STBY

K1 MOJO

1M16 D — +1V2_MOJO → +1V2_MOJO
3V3clean → 3V3clean
1540 J — +3V3 → +3V3
5100 +3V3_MOJO
(ONLY FOR DVB SET)

K2 FLASH MEMORY

+3V3 → +3V3
5201 +3V3_NOR48
5200 +3V3_NOR48
+5V → +5V
(ONLY FOR DVB SET)

K3 POWER SUPPLY

1301 1 — +12V
5309 — +12V_A
7300 MC34063AP1 SUPPLY — 5301 — 5300 — 7311 — +3V3 — K1,K2,K4, K5,K6,K7
5302 3V3clean — K1,K5
7P01 IN OUT COM — +1V8FE — K6
7303 MC34063AP1 SUPPLY — 5304 — 5303 — 5307 +1V2_MOJO — K1
7305 MC34063AP1 SUPPLY — 5306 — 5305 — 7P01 IN OUT COM — +5V — K2,K5, K6,K7
7P01 IN OUT COM — +5Vclean — K6
(ONLY FOR DVB SET)

K4 INTERFACE

+3V3 → +3V3
+5V_USB → +5V_USB
(ONLY FOR DVB SET)

K5 ANALOG BACK END

+3V3 → +3V3
+3V3clean → +3V3clean
+5V → +5V
(ONLY FOR DVB SET)

K6 FRONT END

+1V8FE → +1V8FE
+3V3 → +3V3
5801 +3V3_FE
+5V → +5V
+5Vclean → +5Vclean
(ONLY FOR DVB SET)

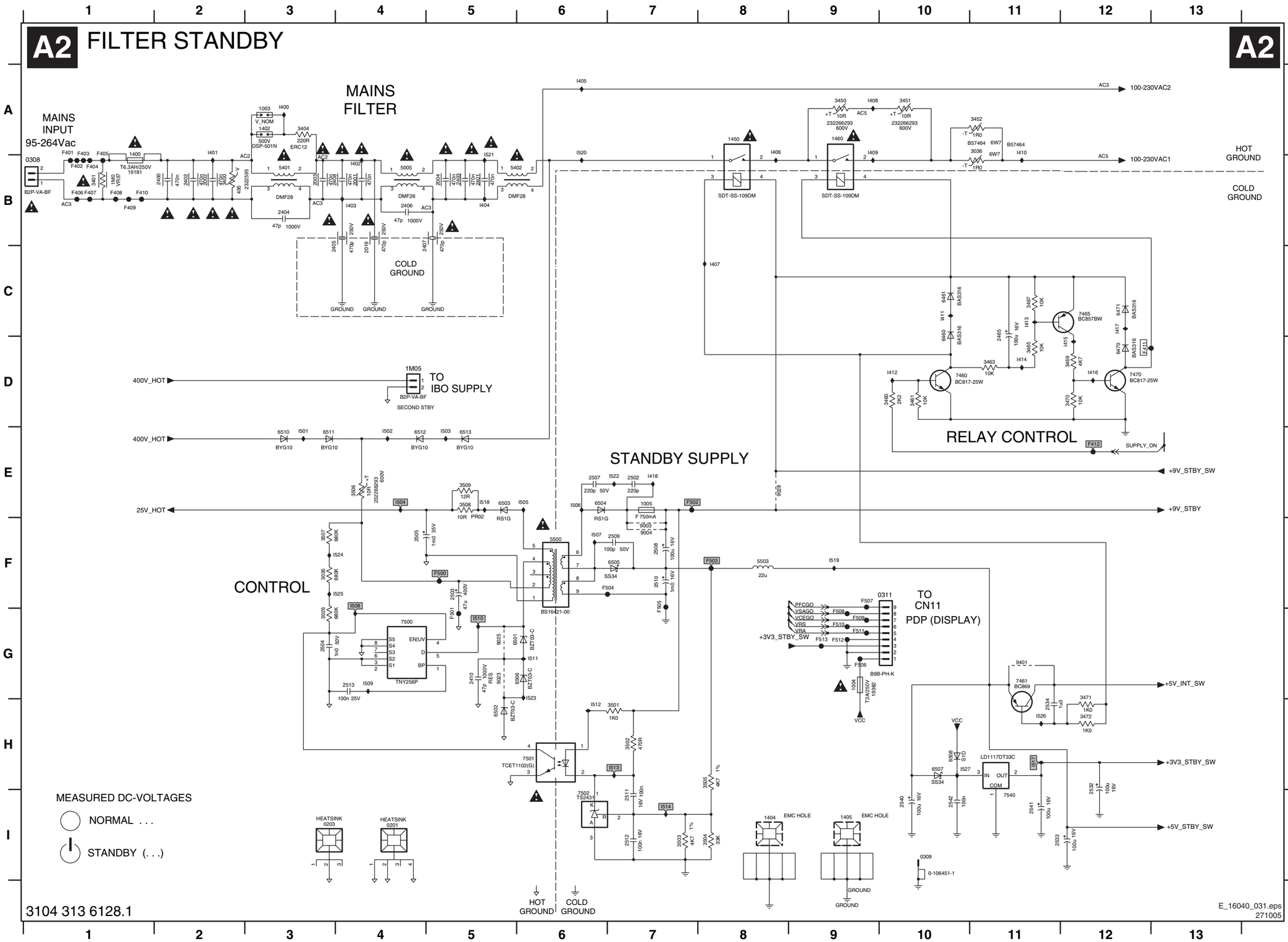
K7 COMMON INTERFACE

+3V3 → +3V3
5703 +3V3_STV
5704 +3V3_CORE
5702 +3V3_BUF
+5V → +5V
7705 CURRENT SWITCH — PCMCIA_5V
5700 PCMCIA_VPP
5701 PCMCIA_AVCC
(ONLY FOR DVB SET)

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7. Circuit Diagrams and PWB Layouts

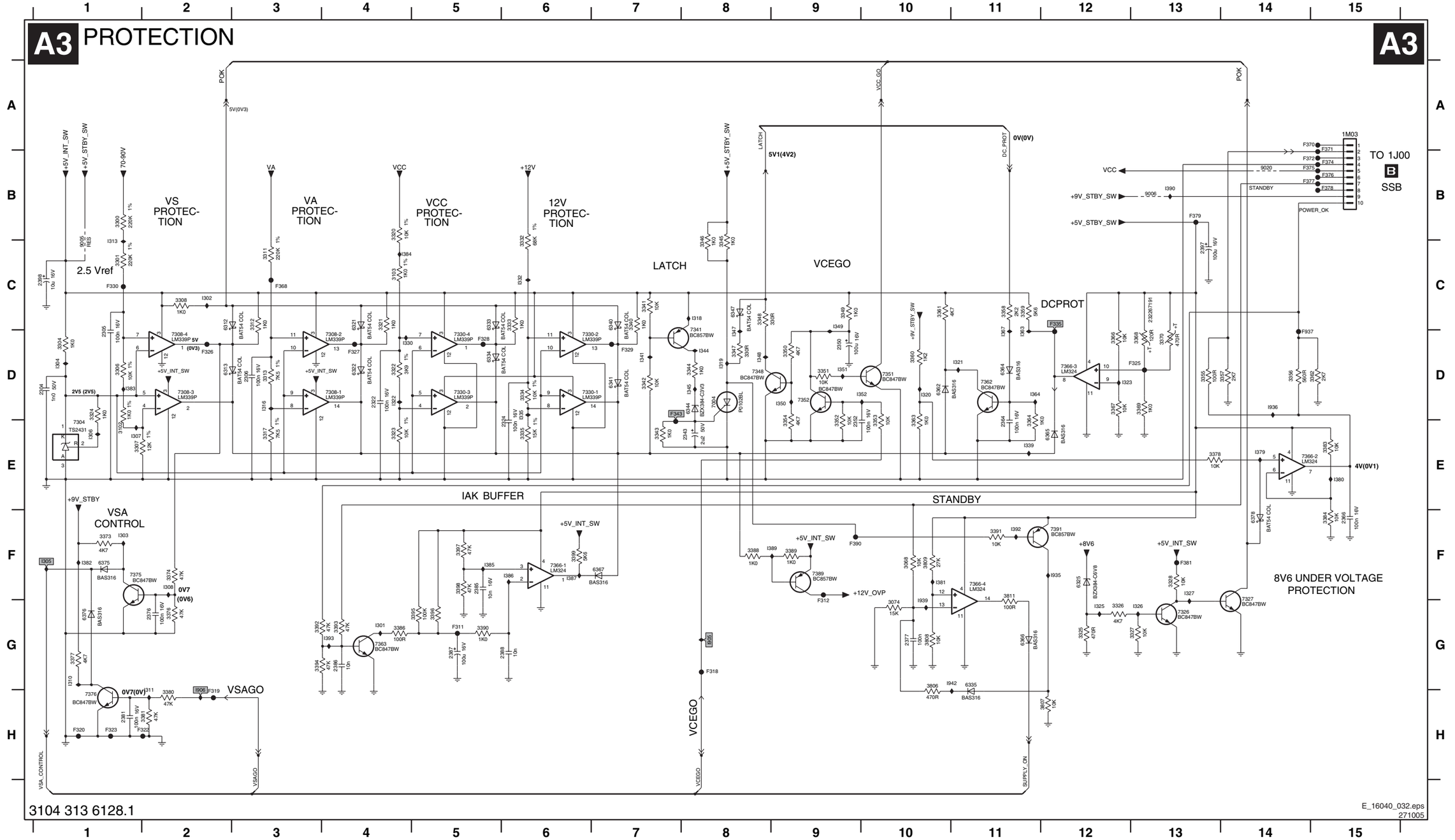
PDP FHP Supply (.1): Filter Standby



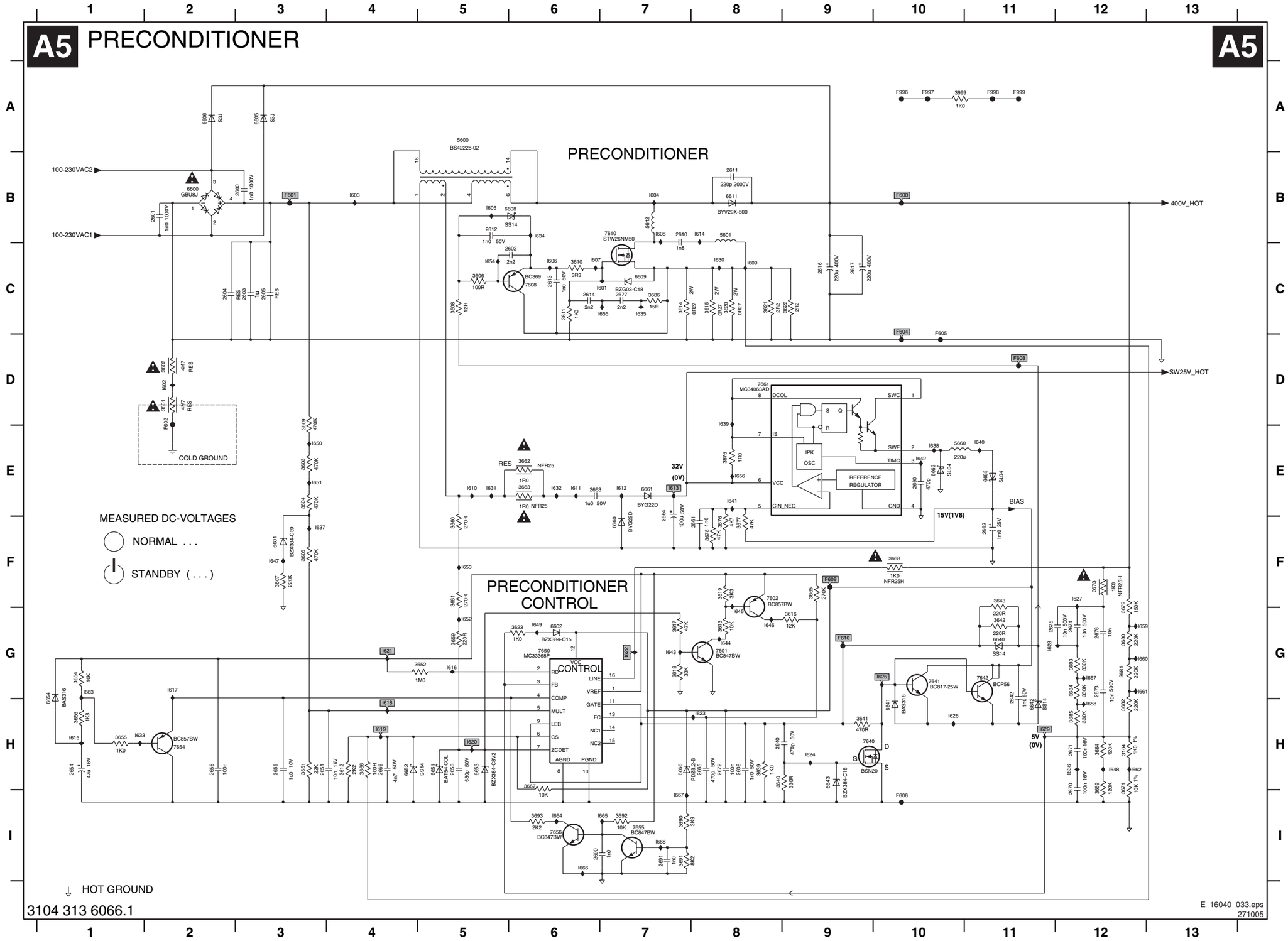
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0203 I3 7470 D12
0308 B1 7500 G4
0309 I10 7501 H6
0311 F10 7502 I6
1003 A3 7540 I11
1004 G9 9003 F7
1005 E7 9004 F7
1400 B1 9023 G5
1402 A3 9025 G5
1404 I8 9028 E8
1405 I9 9401 G11
1450 A8 F401 A1
1460 A9 F402 B1
1M05 D4 F403 B1
2001 B4 F404 B1
2002 B2 F405 B1
2003 B3 F406 B1
2004 B5 F407 B1
2019 C4 F408 B1
2400 B2 F409 B1
2401 B5 F410 B1
2402 B2 F411 D12
2403 B5 F412 E12
2404 B3 F500 F5
2405 C4 F501 G5
2406 B4 F502 E7
2407 C5 F503 F8
2408 B4 F504 F7
2410 G5 F505 F7
2465 C11 F506 G9
2502 E7 F507 F9
2503 F5 F508 G9
2504 G3 F509 G9
2505 F4 F510 G9
2507 E6 F511 G9
2508 F7 F512 G9
2509 F7 F513 G9
2510 F7 I400 A3
2511 I7 I401 A2
2512 I7 I402 B4
2513 G4 I403 B4
2532 H12 I404 B5
2533 I11 I405 A6
2534 H11 I406 A8
2540 I10 I407 C8
2541 I11 I408 A9
2542 I10 I409 A9
3026 G3 I410 A11
3035 F3 I411 C10
3036 A11 I412 D10
3400 B2 I413 C11
3401 B1 I414 D11
3404 A3 I415 D12
3450 A9 I416 D12
3451 A10 I417 C12
3452 A11 I418 E7
3460 D10 I501 E3
3461 D10 I502 E4
3463 D11 I503 E5
3465 D11 I504 E4
3467 C11 I505 E6
3469 D12 I506 E6
3470 D12 I507 F6
3471 G12 I508 F4
3472 H12 I509 G4
3501 H7 I510 G5
3502 H7 I511 G6
3503 I7 I512 H6
3504 I8 I513 H7
3505 H8 I514 I7
3506 E4 I517 H11
3507 F3 I518 E5
3508 E5 I519 F9
3509 E5 I520 A6
5005 B4 I521 A5
5401 B3 I522 E7
5402 B5 I523 G6
5500 F6 I524 F4
5503 F8 I525 F4
6460 C10 I526 H11
6461 C10 I527 H10
6470 D12
6471 C12
6501 G6
6502 H5
6503 E5
6504 E6
6505 F7
6506 G6
6507 H10
6508 H10
6510 E3
6511 E3
6512 E4
6513 E5
7460 D10
7461 G11

PDP FHP Supply (.1): Protection

1M03 A15	2364 E11	2397 C13	3306 D1	3322 D4	3334 D6	3347 D8	3356 D14	3366 D12	3378 E13	3391 F11	3806 G10	6325 F12	6364 D11	7308-1 D4	7330-4 D5	7366-3 D12	F311 G5	F327 D4	F372 B14	F937 D14	I310 G1	I323 D12	I344 D8	I364 D11	I386 F6	I936 D14
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2305 D1	2376 G2	3068 F10	3308 C2	3324 D1	3340 C7	3349 G3	3358 C11	3368 D13	3381 H2	3393 G4	3808 G10	6334 D5	6366 G11	7308-3 D2	7348 D8	7375 F1	F318 G8	F329 D7	F375 B14	I302 C2	I313 C1	I326 G13	I347 D8	I379 E14	I389 F9	I942 G11
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2350 D9	2387 G5	3301 C1	3320 B4	3332 C6	3345 D8	3354 E9	3363 E10	3376 G2	3389 F9	3398 F5	6321 C4	6347 C8	7004 D8	7330-2 D6	7366-1 F6	9006 B13	F325 D13	F370 A14	F381 F13	I307 E1	I321 D11	I339 E11	I352 D10	I384 C4	I906 G2	
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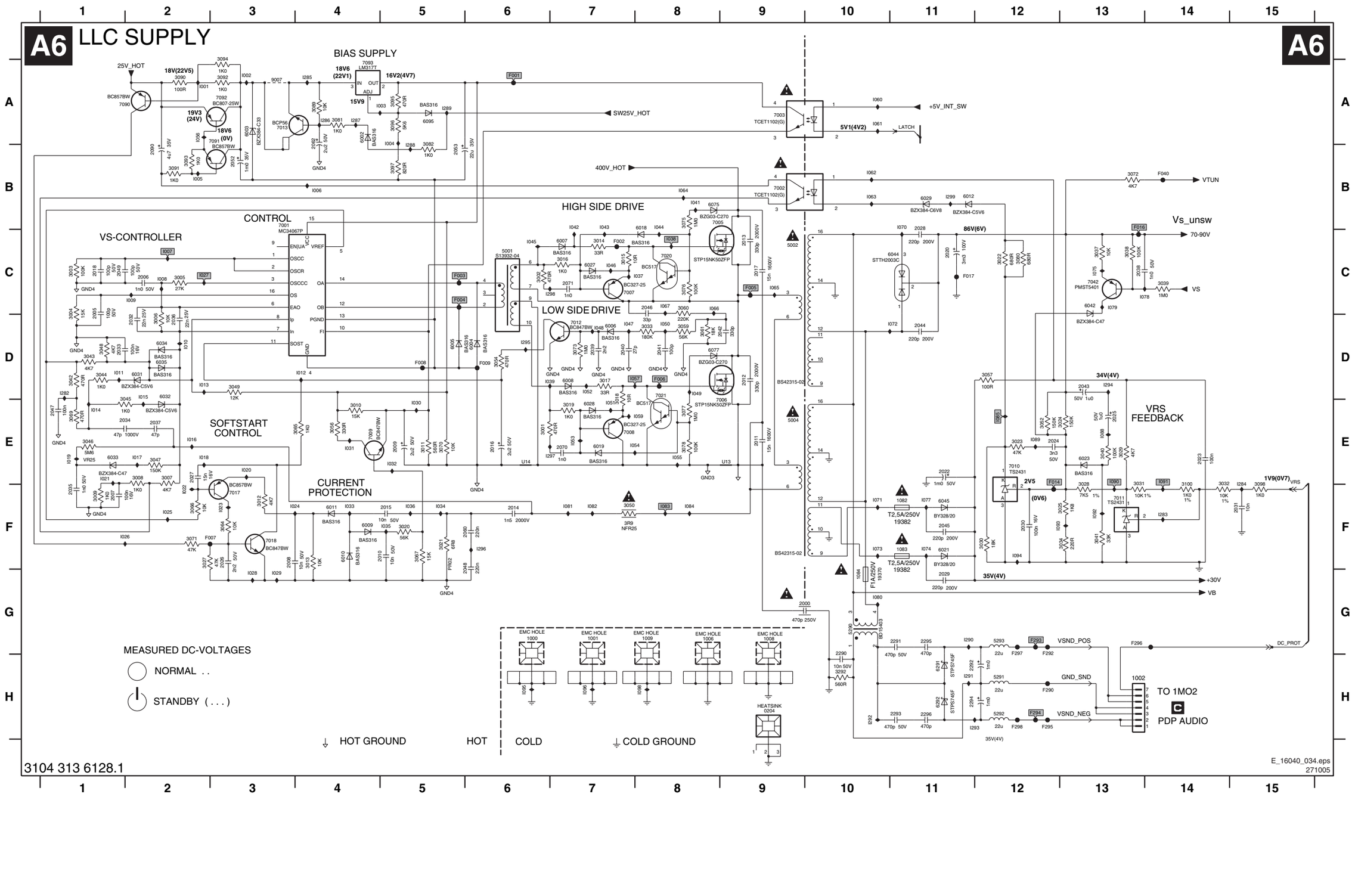
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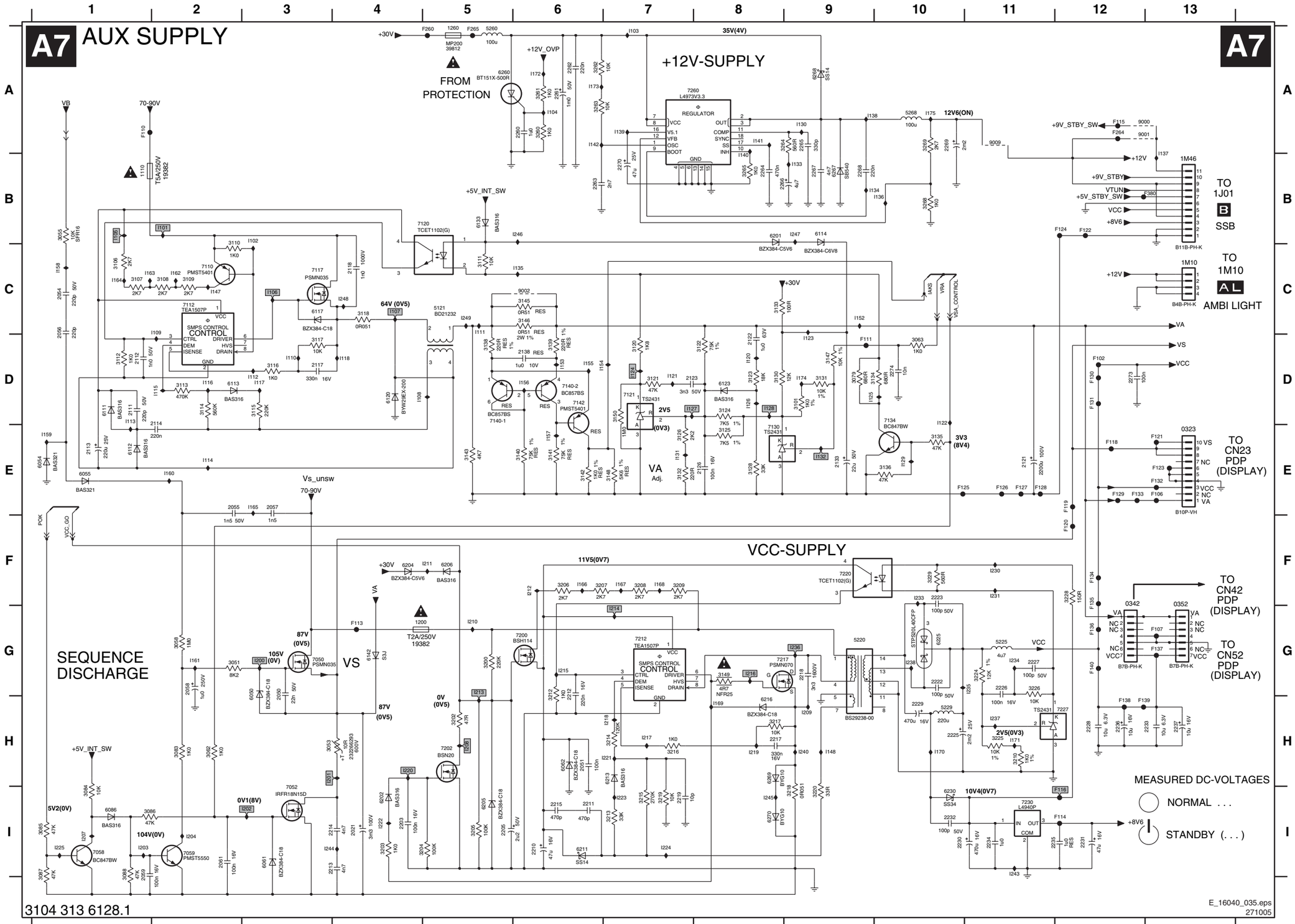
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2663 E6	6654 G1	I667 I7
2664 E7	6660 F7	I668 I7
2665 H8	6661 E7	
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3673 F12	I630 C8	
3675 E8	I631 E5	
3676 F8	I632 E6	
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3678 F8	I634 B6	
3679 F12	I635 C7	
3680 G12	I636 H12	
3681 G12	I637 F3	
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3683 G12	I639 D8	
3684 G12	I640 E11	
3685 H12	I641 E8	
3686 C7	I642 E10	

PDP FHP Supply (.1): LLC Supply

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PDP FHP Supply (.1): AUX Supply

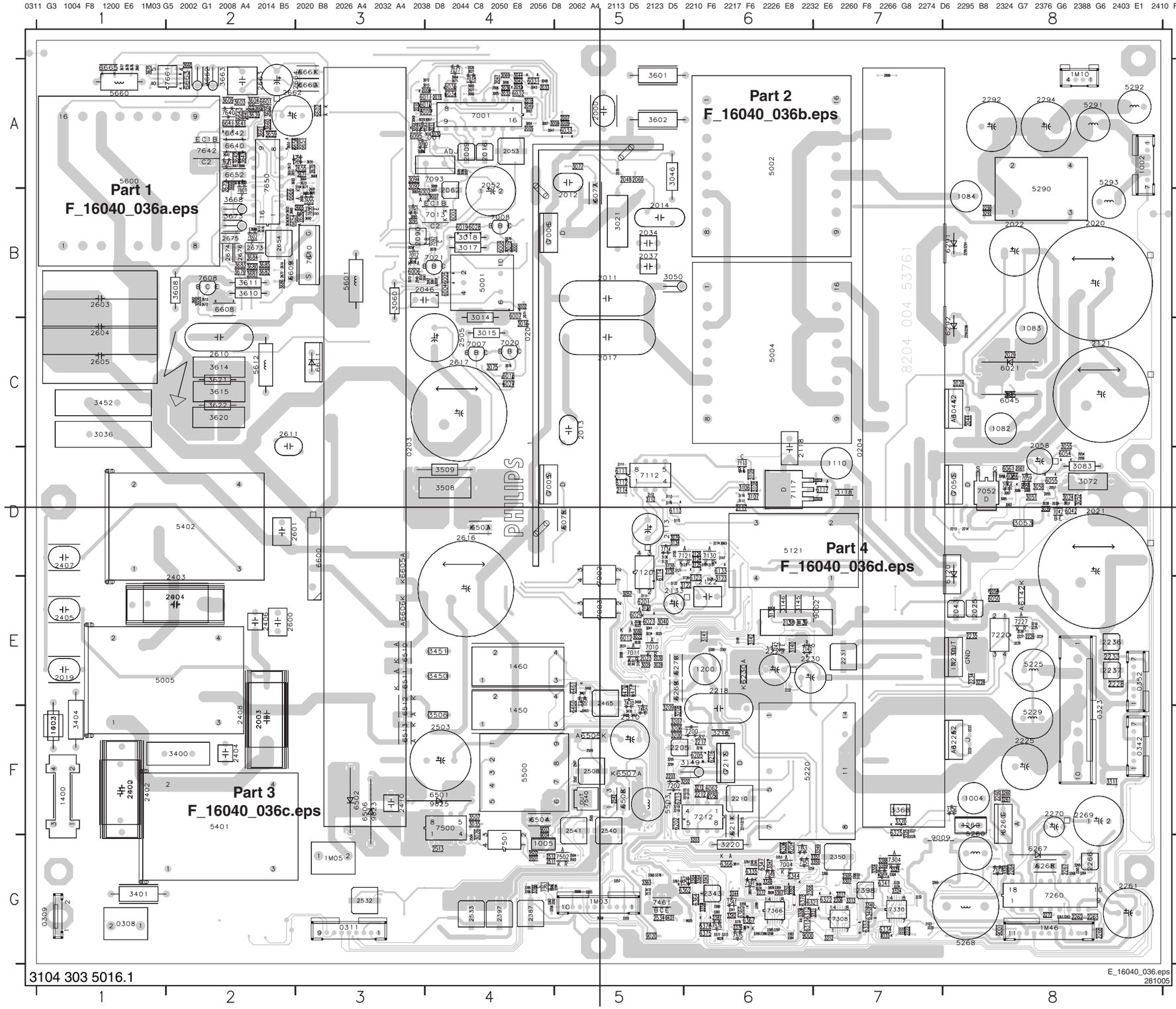


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2213 I4	5121 C5	I128 D8
2214 I4	5220 G9	I129 E10
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2228 H12	6086 I1	I139 A7
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2269 A10	6230 I10	I165 E3
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Layout PDP FHP Supply (.1) (Overview Top Side)

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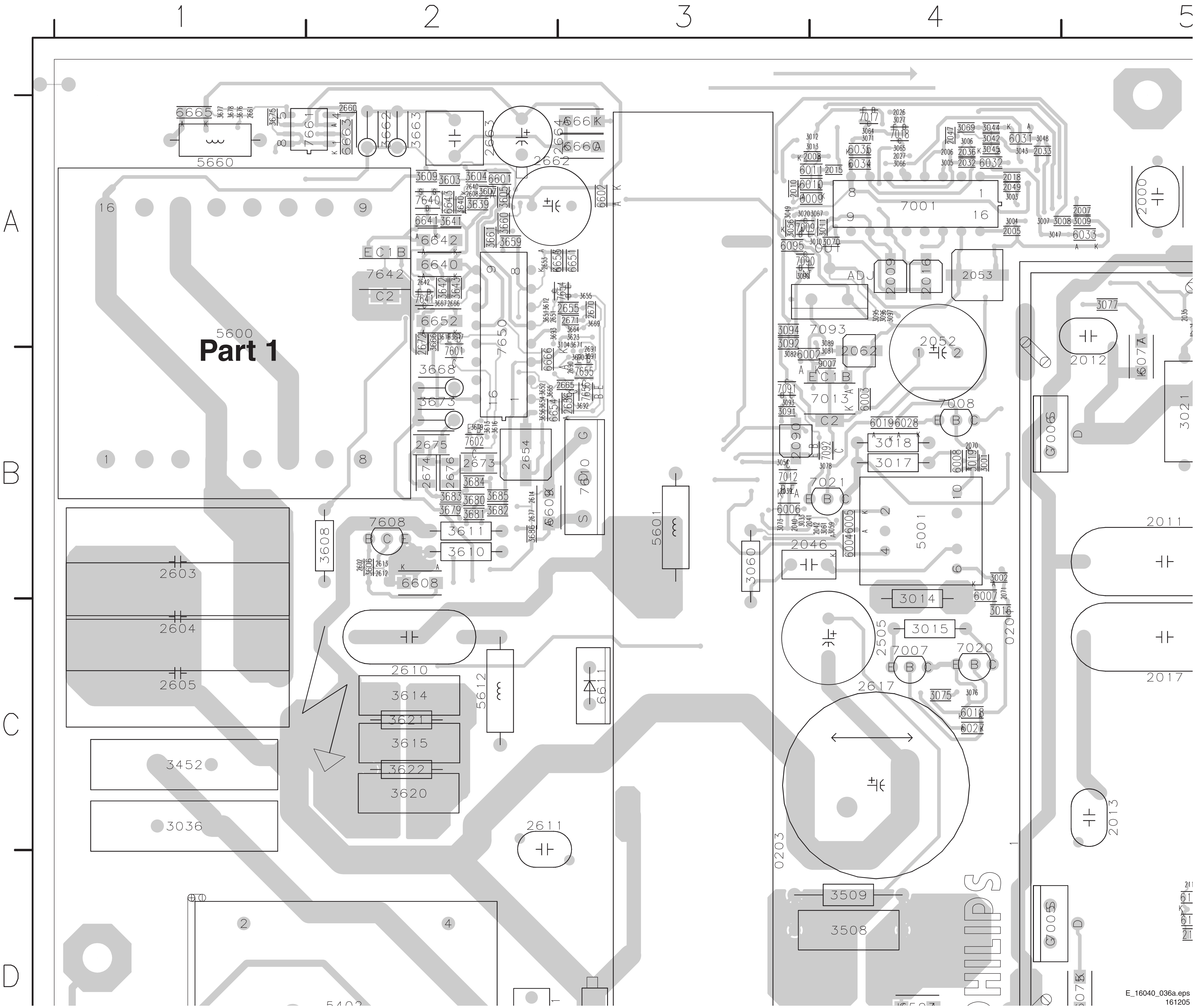
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2676 B2 3110 D6 3359 G6 3683 B2 6365 G6 7602 B2
2677 B2 3111 E5 3360 G5 3684 B2 6366 G6 7608 B2
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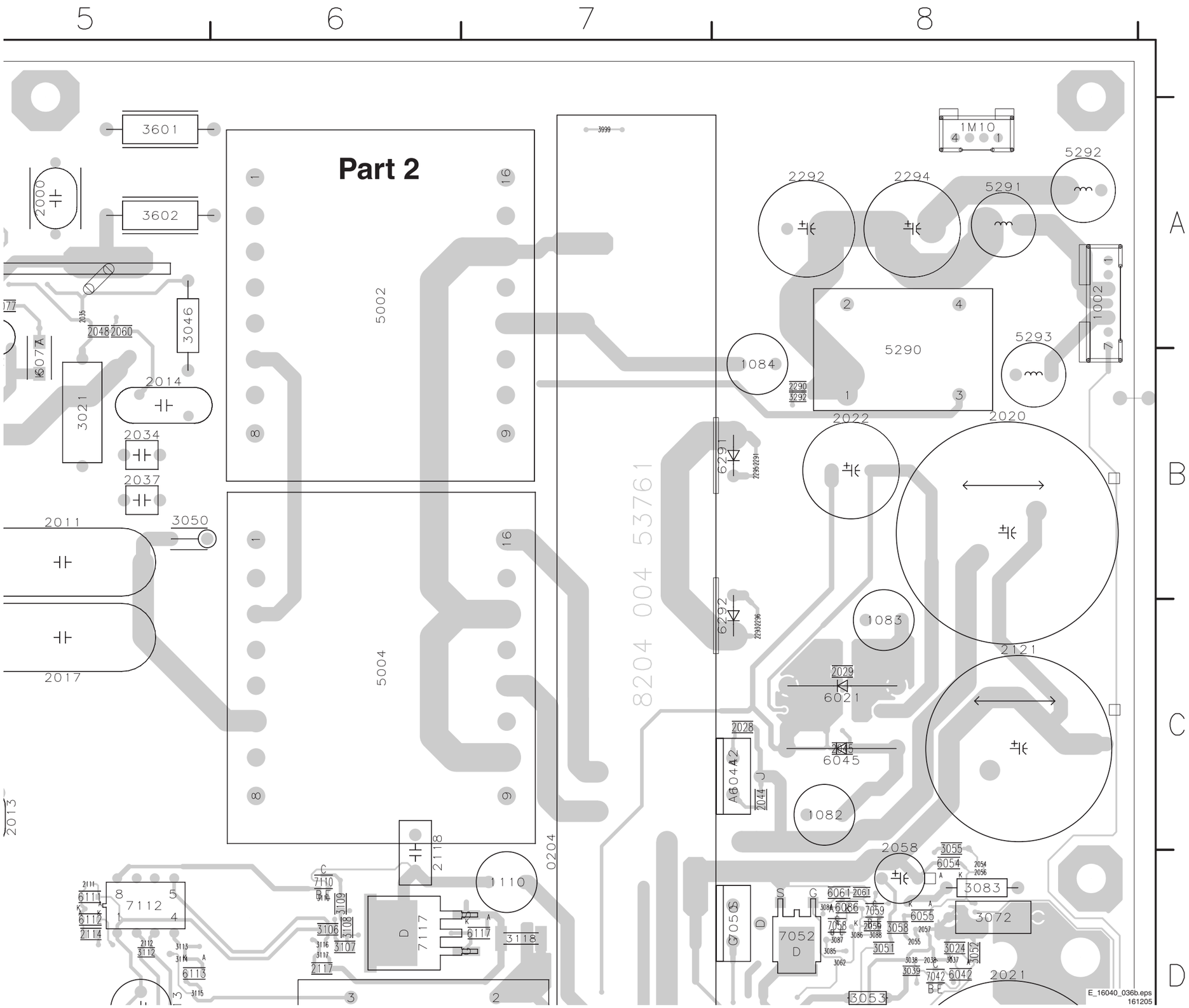
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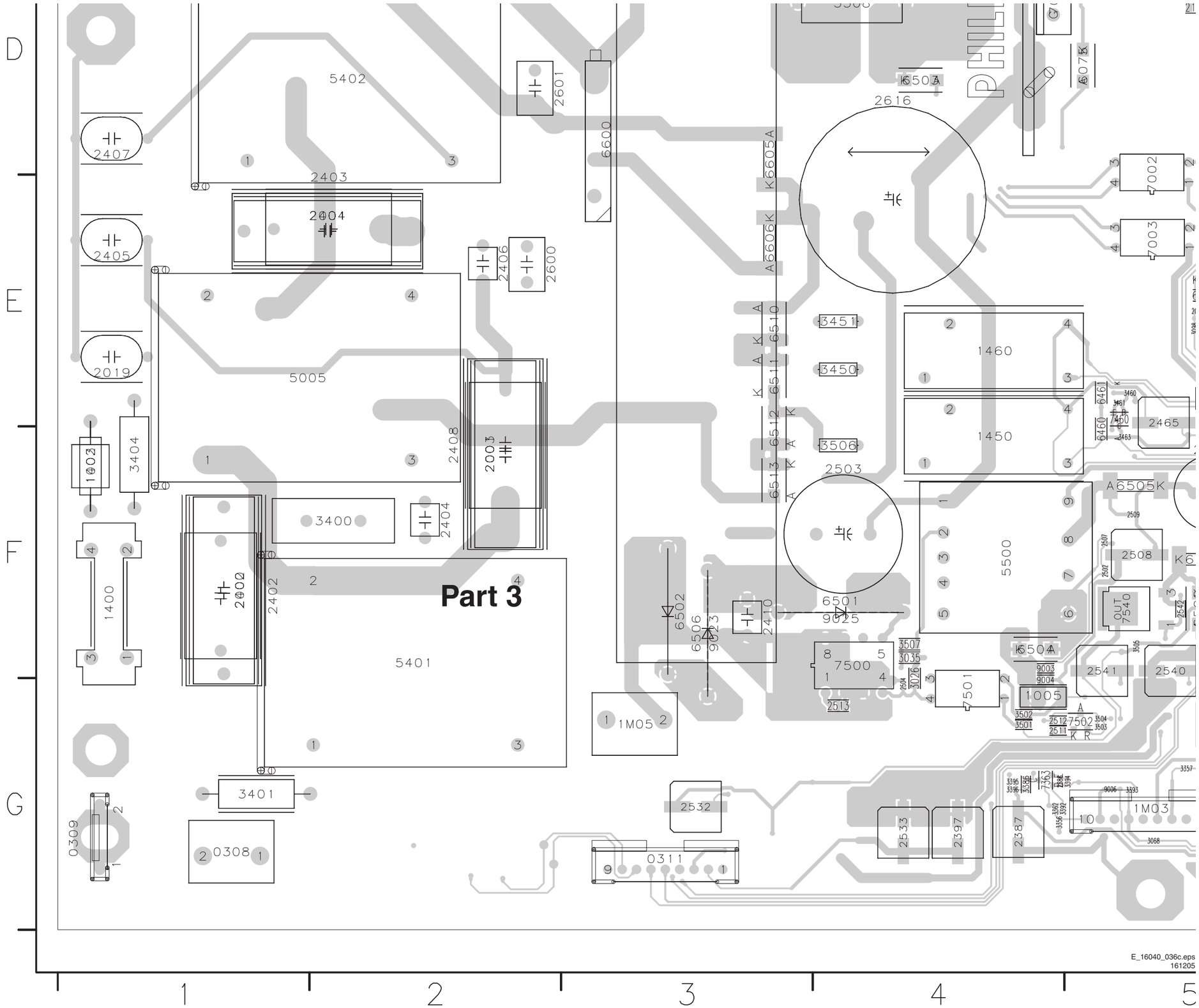
Layout PDP FHP Supply (.1) (Part 1 Top Side)



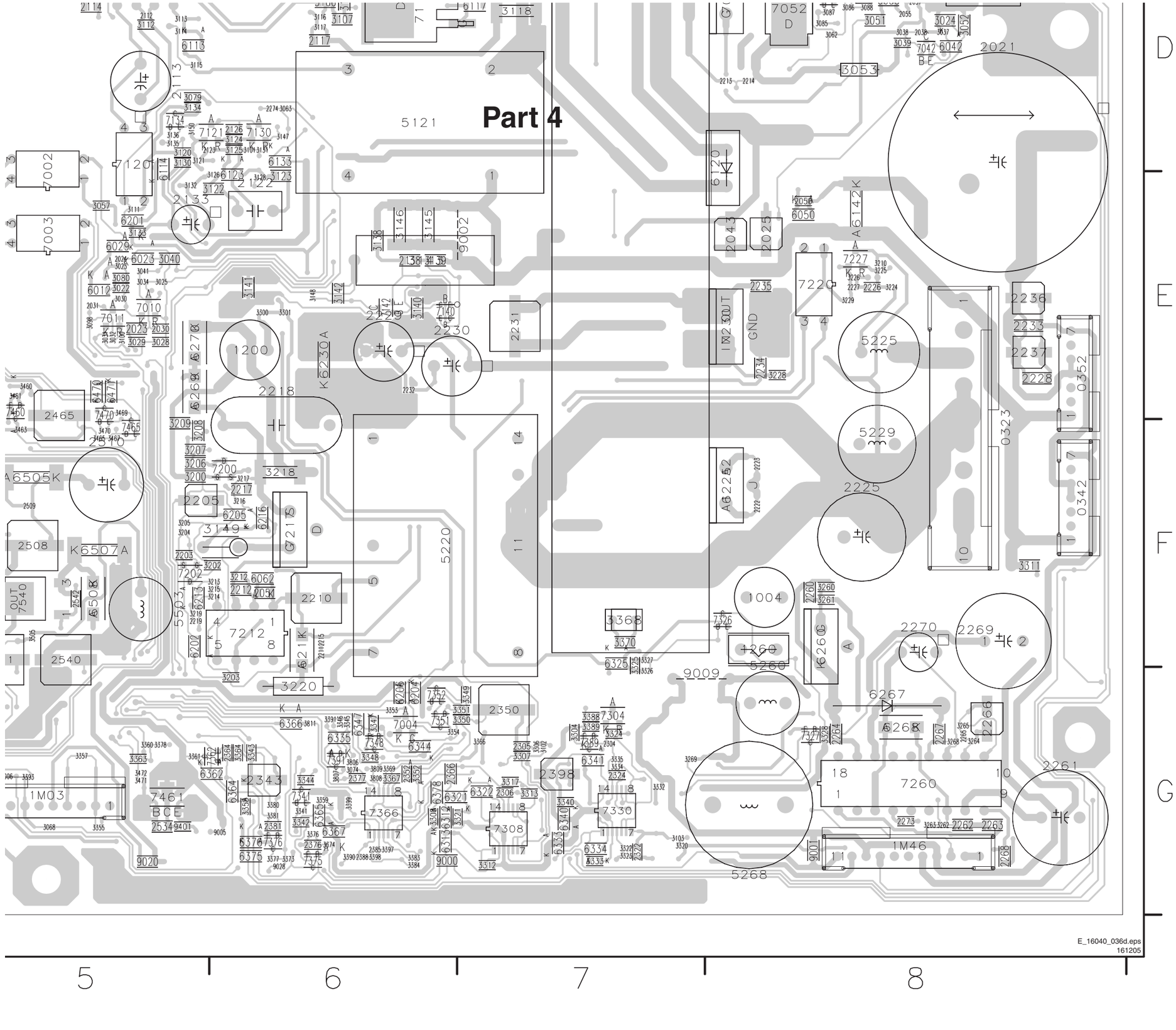
Layout PDP FHP Supply (.1) (Part 2 Top Side)



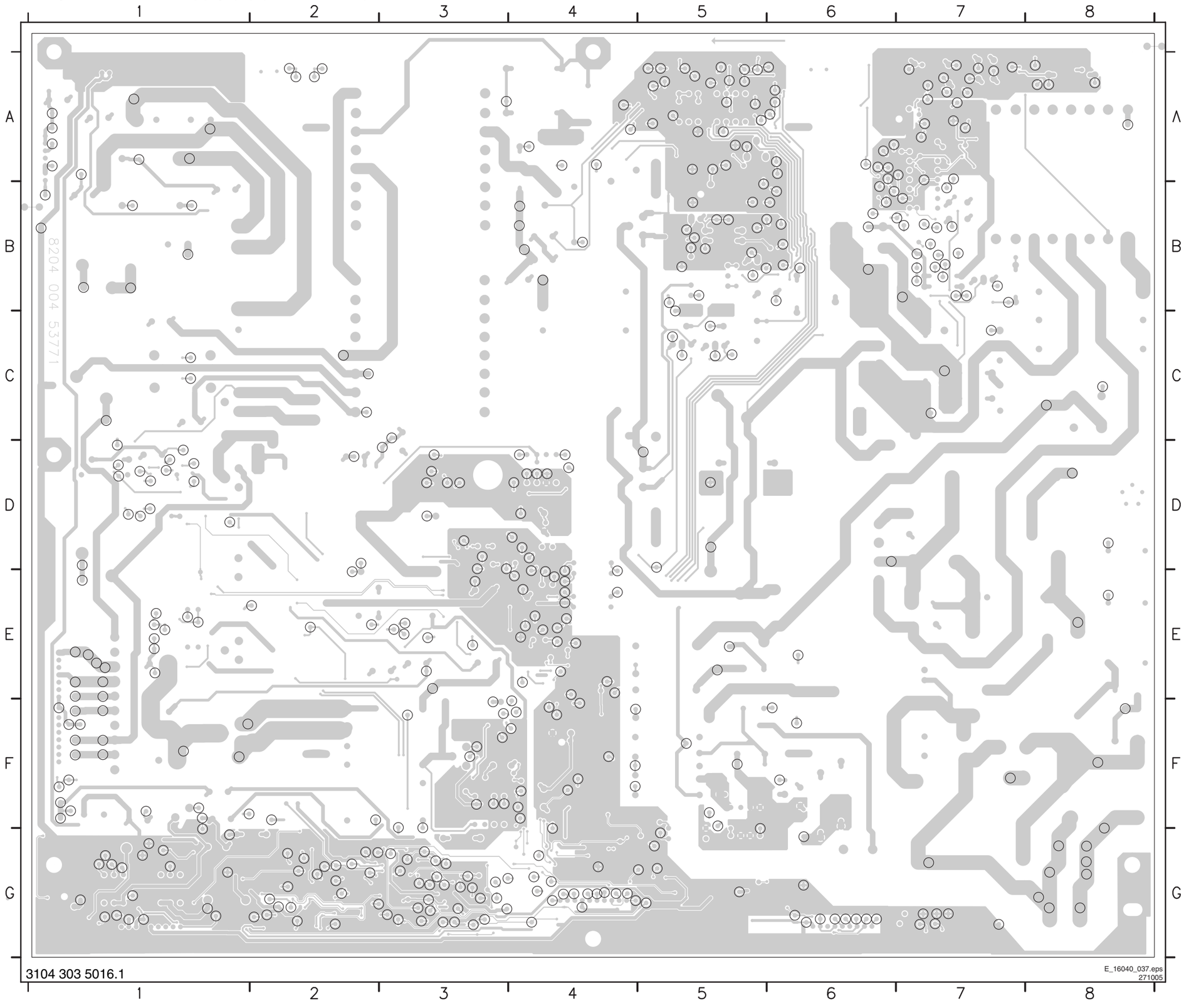
Layout PDP FHP Supply (.1) (Part 3 Top Side)



Layout PDP FHP Supply (.1) (Part 4 Top Side)



Layout PDP FHP Supply (.1) (Bottom View)



PDP FHP Supply (.2): Filter Standby

A2 FILTER STANDBY

MAINS INPUT 95-264Vac

MAINS FILTER

STANDBY SUPPLY

CONTROL

RELAY CONTROL

TO CN11 PDP (DISPLAY)

HOT GROUND

COLD GROUND

MEASURED DC-VOLTAGES

NORMAL . . .

STANDBY (. . .)

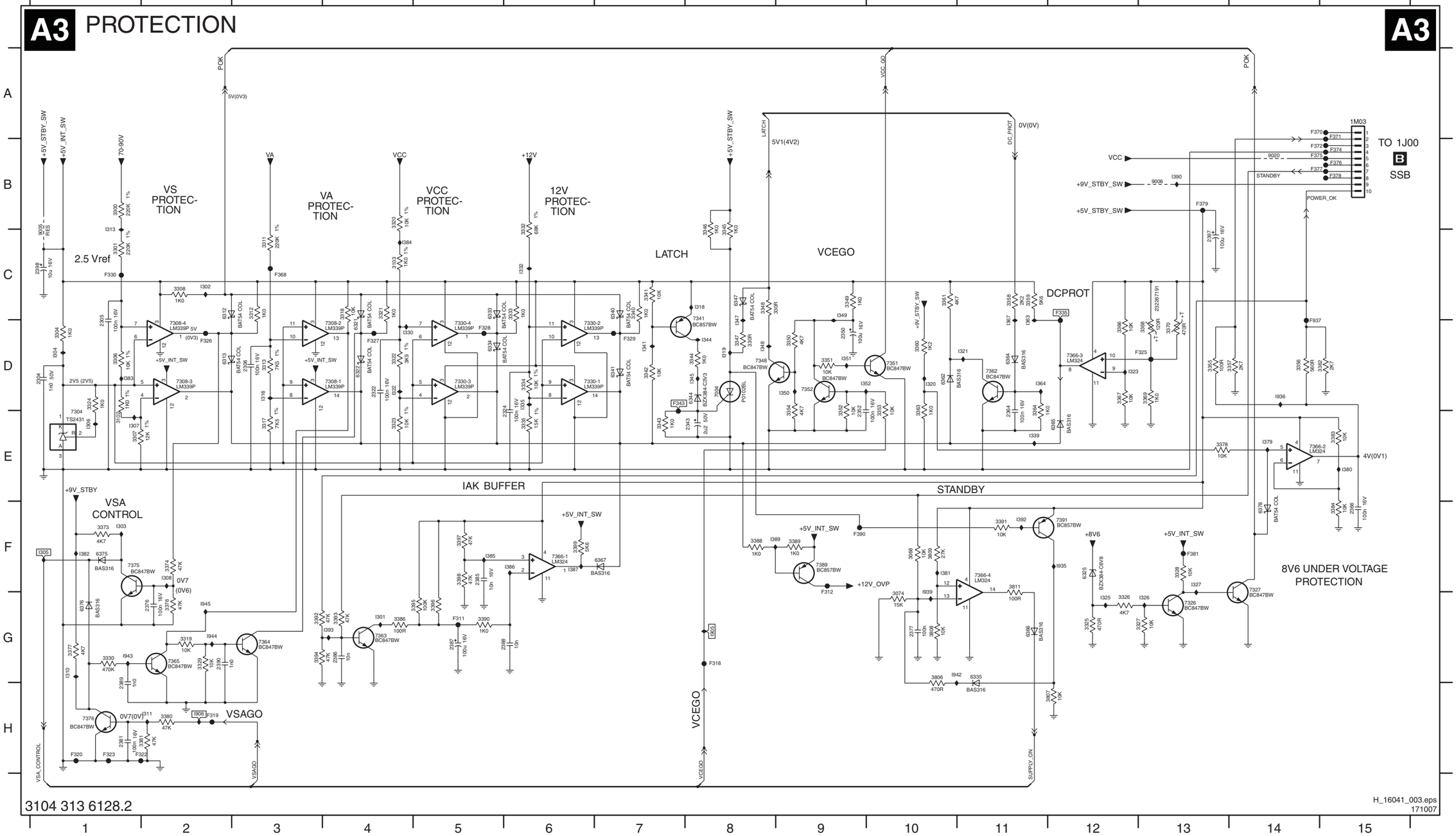
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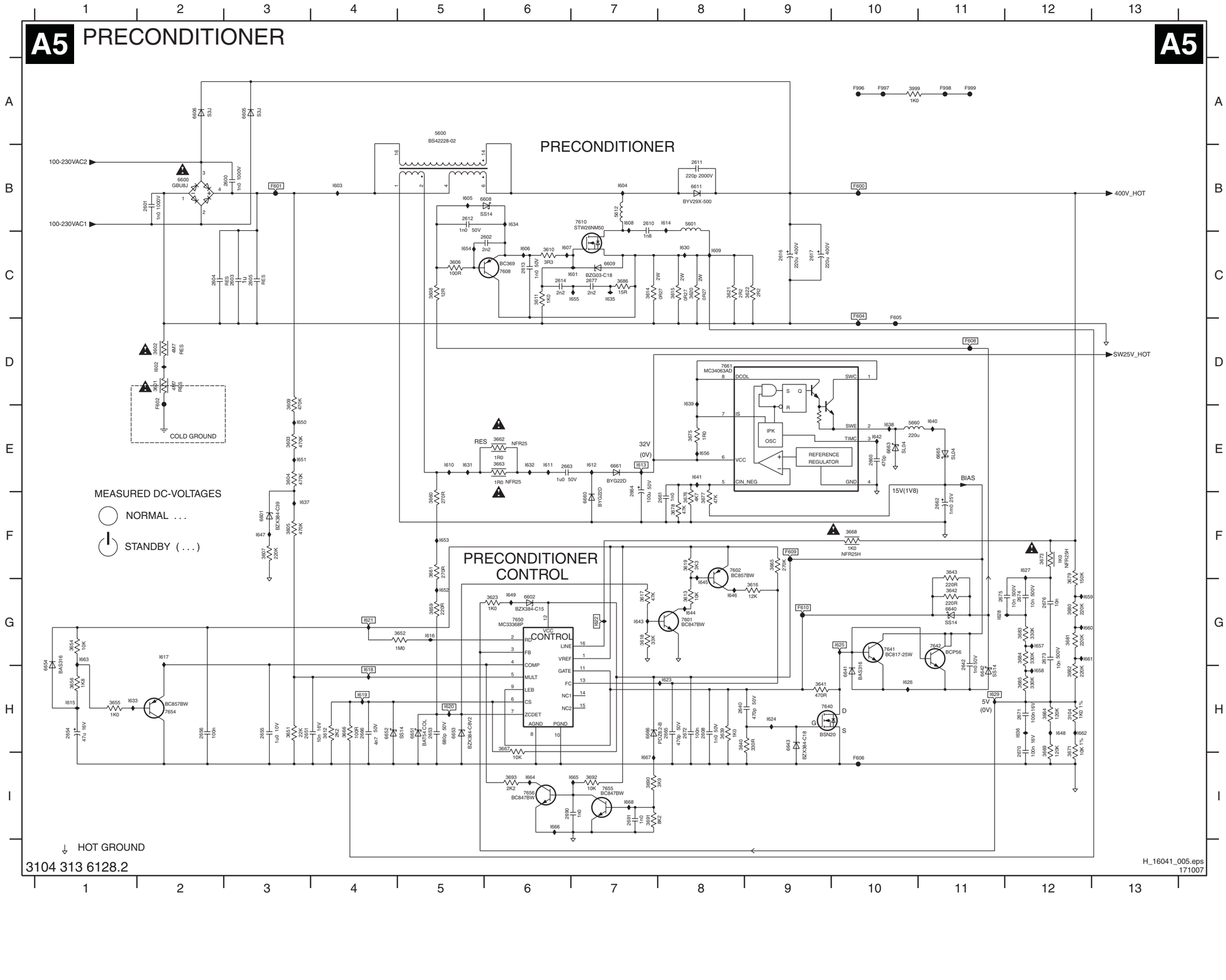
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1004 G9	9003 F7
1005 E7	9004 F7
1400 B1	9023 G5
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1404 I8	9028 E8
1405 I9	9401 G11
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1460 A9	F402 B1
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2004 B5	F407 B1
2019 C4	F408 B1
2400 B2	F409 B1
2401 B5	F410 B1
2402 B2	F411 D12
2403 B5	F412 E12
2404 B3	F500 F5
2405 C4	F501 G5
2406 B4	F502 E7
2407 C5	F503 F8
2408 B4	F504 F7
2410 G5	F505 F7
2465 C11	F506 G9
2502 E7	F507 F9
2503 F5	F508 G9
2504 G3	F509 G9
2505 F4	F510 G9
2507 E6	F511 G9
2508 F7	F512 G9
2509 F7	F513 G9
2510 F7	I400 A3
2511 I7	I401 A2
2512 I7	I402 B4
2513 G4	I403 B4
2532 H12	I404 B5
2533 I11	I405 A6
2534 H11	I406 A8
2540 I10	I407 C8
2541 I11	I408 A9
2542 I10	I409 A9
3026 G3	I410 A11
3035 F3	I411 C10
3036 A11	I412 D10
3400 B2	I413 C11
3401 B1	I414 D11
3404 A3	I415 D12
3450 A9	I416 D12
3451 A10	I417 C12
3452 A11	I418 E7
3460 D10	I501 E3
3461 D10	I502 E4
3463 D11	I503 E5
3465 D11	I504 E4
3467 C11	I505 E6
3469 D12	I506 E6
3470 D12	I507 F6
3471 G12	I508 F4
3472 H12	I509 G4
3501 H7	I510 G5
3502 H7	I511 G6
3503 I7	I512 H6
3504 I8	I513 H7
3505 H8	I514 I7
3506 E4	I517 H11
3507 F3	I518 E5
3508 E5	I519 F9
3509 E5	I520 A6
5005 B4	I521 A5
5401 B3	I522 E7
5402 B5	I523 G6
5500 F6	I524 F4
5503 F8	I525 F4
6460 C10	I526 H11
6461 C10	I527 H10
6470 D12	
6471 C12	
6501 G6	
6502 H5	
6503 E5	
6504 E6	
6505 F7	
6506 G6	
6507 H10	
6508 H10	
6510 E3	
6511 E3	
6512 E4	
6513 E5	
7460 D10	
7461 G11	

PDP FHP Supply (.2): Protection

1M03 A15 2304 D1 2305 D1 2306 D3 2322 D4 2324 E6 2343 E8 2350 D9 2352 E9
2364 E11 2366 F15 2376 G2 2377 G10 2381 H1 2385 F5 2386 G4 2387 G5 2388 G6
2389 H1 2390 G2 2397 C13 2398 C1 3068 F10 3074 G10 3102 E1 3103 C4 3300 B1
3301 C1 3304 D1 3306 D1 3307 E1 3308 C2 3311 C3 3312 C3 3313 D3 3317 E3
3318 C4 3319 G2 3320 B4 3321 C4 3322 D4 3323 E4 3324 D1 3325 G12 3326 G12
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3809 F10 3811 F11 6312 C2 6313 D2 6321 D4 6322 D4 6325 F12 6333 C5 6334 D5
6335 G11 6340 C7 6341 D7 6344 D8 6347 C8 6362 D10 6364 D11 6365 E12 6366 G11
6367 F7 6375 F1 6376 G1 6378 F14 7004 D8 7304 D1 7308-1 D4 7308-2 D4 7308-3 D2
7308-4 D2 7326 G13 7327 F14 7330-1 D6 7330-2 D6 7330-3 D5 7330-4 D5 7341 C8 7348 D8
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F937 D14 I301 G4 I302 C2 I303 F1 I304 D1 I306 E1 I307 E1 I308 F2 I310 G1
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I347 D8 I348 D8 I349 C9 I350 C9 I351 D9 I352 D9 I363 D11 I364 D11 I365 F5
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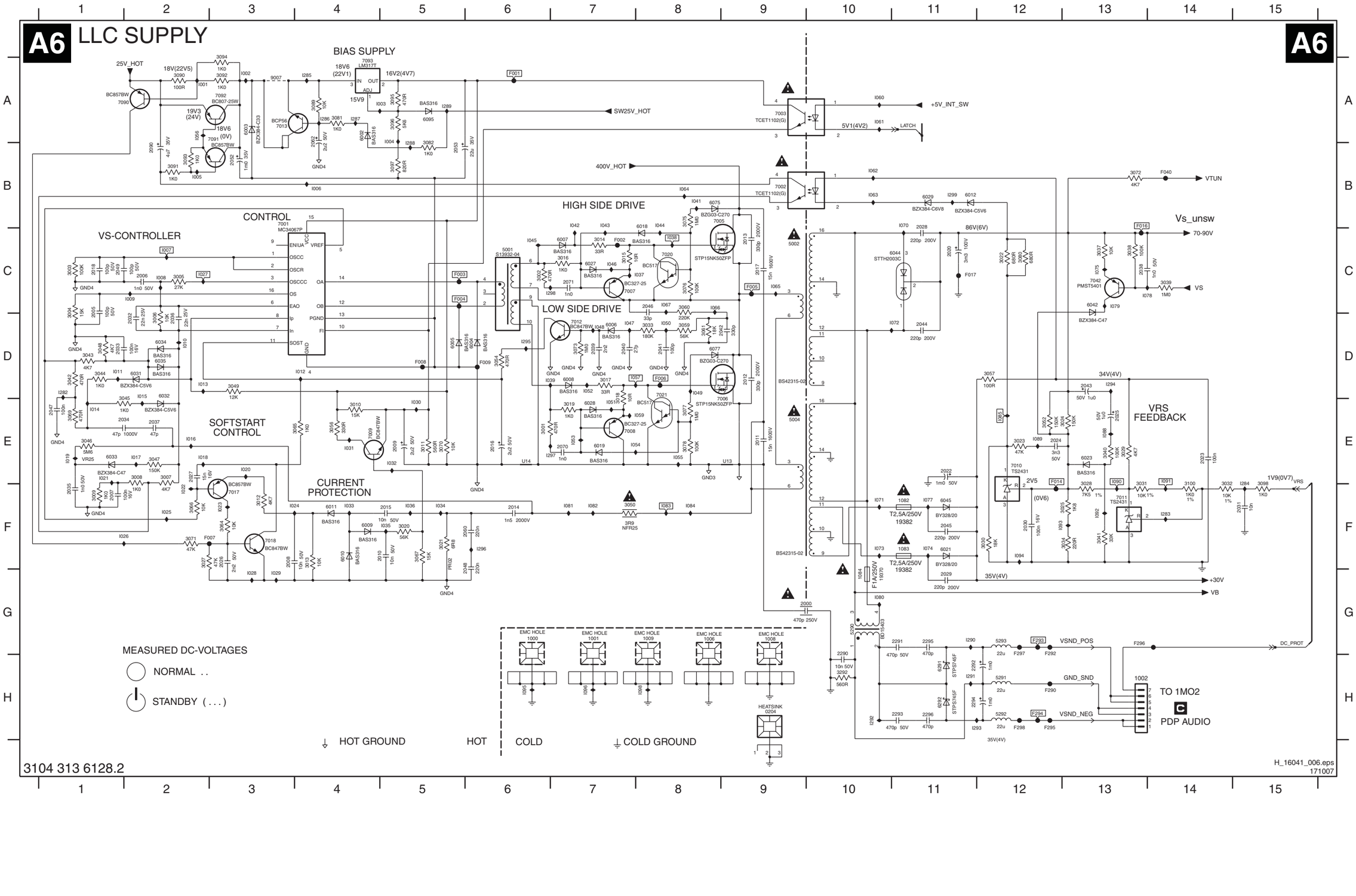
PDP FHP Supply (.2): Pre Conditioner



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2610 B7	5612 B7	I650 E3
2611 B8	5660 E10	I651 E3
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2614 C6	6602 G6	I654 C5
2616 C9	6605 A3	I655 C7
2617 C9	6606 A2	I656 E8
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2642 G11	6609 C7	I658 H12
2651 H3	6611 B8	I659 G12
2653 H5	6640 G11	I660 G12
2654 H1	6641 H10	I661 G12
2655 H3	6642 H11	I662 H12
2656 H2	6643 H9	I663 G1
2660 E10	6651 H5	I664 I6
2661 F8	6652 H4	I665 I7
2662 F11	6653 H5	I666 I6
2663 E6	6654 G1	I667 I7
2664 E7	6660 F7	I668 I7
2665 H8	6661 E7	
2666 H4	6663 E10	
2670 H12	6665 E11	
2671 H12	6666 H7	
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2673 G12	7602 F8	
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2691 I7	7650 G6	
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3607 F3	F604 C10	
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3609 D3	F606 I10	
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3611 C6	F609 F9	
3612 H4	F610 G9	
3613 G8	F996 A10	
3614 C7	F997 A10	
3615 C8	F998 A11	
3616 G9	F999 A11	
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3622 C9	I606 C6	
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3639 H8	I608 B7	
3640 H8	I609 C8	
3641 H9	I610 E5	
3642 G11	I611 E6	
3643 F11	I612 E7	
3651 H3	I613 E7	
3652 G5	I614 B8	
3654 G1	I615 H1	
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3656 H1	I617 G2	
3659 G5	I618 H4	
3660 F5	I619 H4	
3661 F5	I620 H5	
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3675 E8	I631 E5	
3676 F8	I632 E6	
3677 F8	I633 H1	
3678 F8	I634 B6	
3679 F12	I635 C7	
3680 G12	I636 H12	
3681 G12	I637 F3	
3682 H12	I638 E10	
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3685 H12	I641 E8	
3686 C7	I642 E10	

PDP FHP Supply (.2): LLC Supply

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I296 F6 I297 E7 I299 B11



PDP FHP Supply (.2): AUX Supply

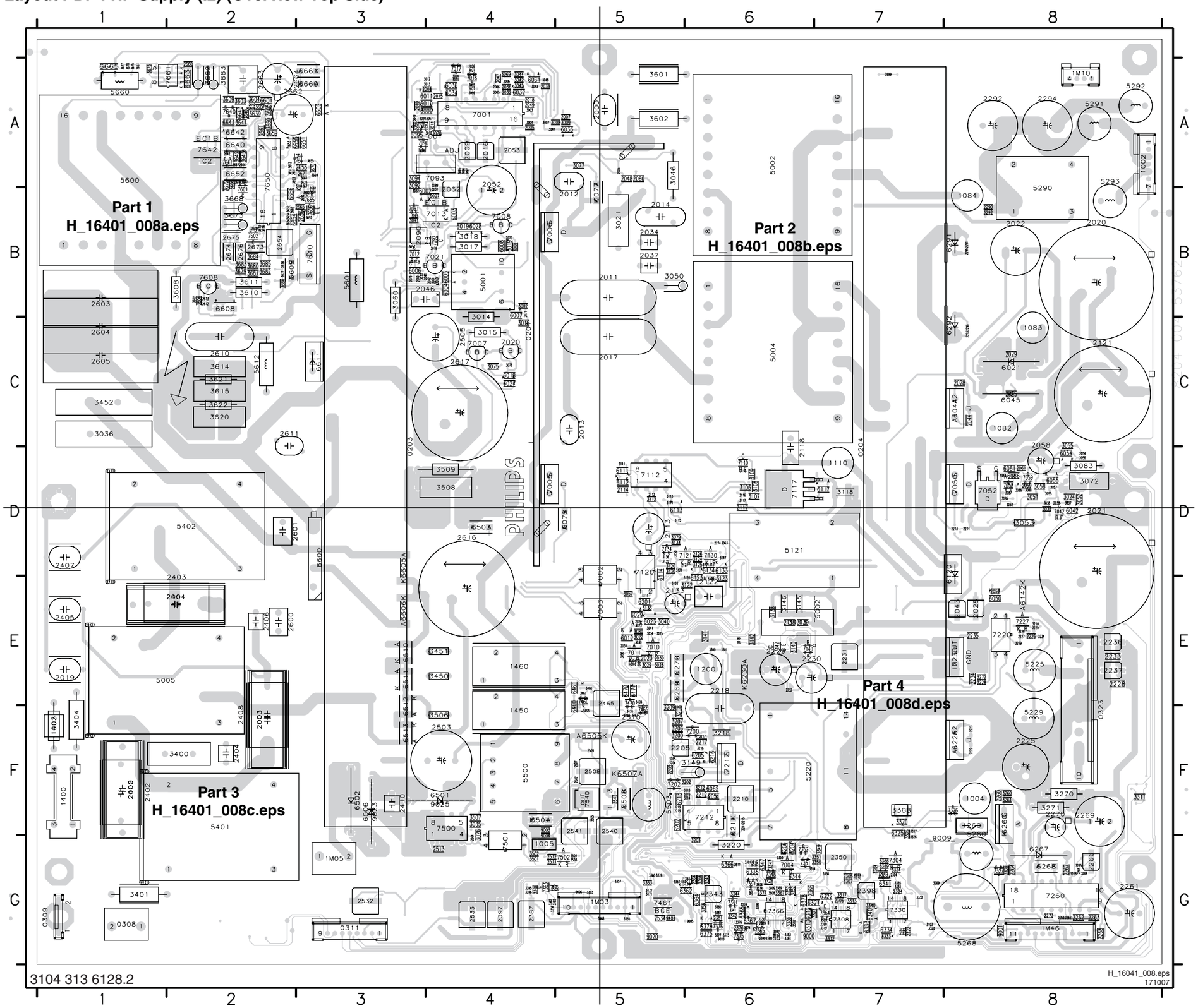
A7 AUX SUPPLY

A7

+30V
F260 1260 MP200 39812
F265 5260 100u
FROM PROTECTION
+12V_OVP
6260 BT151X-500R
I172 I173 I104
3261 1K0
2261 1mD 50V
2262 220n
3262 10K
3263 10K
3260 1K0
2260 1u
2263 2n7
2270 47u 25V
+12V-SUPPLY
35V(4V)
I103
7260 L4973V3.3
REGULATOR
VCC VS.1 VFB OSC BOOT
OUT COMP SYNC SS INH GND
I139 I142 I130 I141 I140 I133
3264 56K
2265 330p
3265 1K0
2264 470n
2266 4u7
2267 4u7
6287 SB540
6288 SS14
2268 220n
I138 I134 I136
5268 100u
I175 12V6(ON)
9009
3268 1K0
3269 2K7
2269 2n2
+9V_STBY_SW
F115 9000
F264 9001
I137
+12V
+9V_STBY
VTUN
+5V_STBY_SW
F380
VCC
+8V6
1M46
B11B-PH-K
TO 1J01 B SSB
F124 F122
1M10
+12V
B4B-PH-K
TO 1M10 A L AMBI LIGHT
VA
VS
VCC
F102 F130 F131 2273 10n
F121 F118 F123 F132 F129 F133 F106
0323
10 VS 9 8 7 NC 6 5 4 3 VCC 2 NC 1 VA
B10P-VH
TO CN23 PDP (DISPLAY)
VB
70-90V
F110
1110 T5A/250V 19382
3055 10K SFR16
2054 220p 50V
2056 220p
I158
I101
I105
3106 2K7
I164 3107 2K7 I163 3108 2K7 I162 3109 2K7 I147
7110 PMST5401
3110 1K0
I102
7117 PSMN035
2118 1n0 1000V
I248
6117 BZX384-C18
3118 0R051
64V (0V5)
I107
5121 BD21232
I249
I106
7112 TEA1507P
SMPS CONTROL CONTROL
CTRL DEM ISENSE
VCC DRIVER HVS DRAIN GND
I109
3112 1K0 2112 1n0 50V
3117 10K
I110
2117 330n 16V
I118
3116 1K0
I112 I117
3113 470K
I116
6113 BAS316
I115
3114 560K
3115 220K
6111 BAS316
2111 220p 50V
I113
2114 220n
6112 BAS316
I114
I159
6054 BAS321
6055 BAS321
I160
Vs_unsw
70-90V
2055 1n5 50V
I165
2057 1n5
POK
VCC_GD
7120 TCET1102(G)
6133 BAS316
+5V_INT_SW
VCC
6134 BAS316
I246
I135
6201 BZX384-C5V6
I247
6114 BZX384-C6V8
9002
3145 0R51 RES
3146 0R51 RES 2W 1%
2138 RES
1u0 10V
3138 220R RES 1%
3139 220R RES 1%
I111
I155
I156 RES
7140-2 BC857BS
7140-1 BC857BS
I153
7142 PMST5401
RES
I154
3140 75K RES 1%
3141 75K RES 1%
3142 1K0 RES 1%
3148 5K6 RES 1%
VA Adj.
3143 4K7
I249
3120 1K8
3121 47K
I121
2123 3n3 50V
I124
3122 75K 1%
6123 BAS316
7121 TS2431 2V5 (0V3)
I127
3124 7K5 1%
3125 7K5 1%
3126 2K2
3131 220R
2135 2n2
3132 220R
I131
3150 1M
3133 100R
+30V
I152
I123
VRA
VSA_CONTROL
F111
3063 1K0
3079 680R
3134 680R
2214 10n
I125
3147 10K 1%
3161 1K0 1%
I174
3131 10K 1%
I120 I122 I126 I128
3123 18K
3130 12K
7130 TS2431
I132
3135 47K
3136 47K
7134 BC847BW
I129
2133 22u 50V
2121 2200u 100V
F125 F126 F127 F128
F119 F120
2122 1u0 63V
I230
3229 680R
3228 150R
F134 F135 F136
I233 2223 100p 50V
STPS20L40CFP
6225
I231
I238
2222 100p 50V
2229 470u 16V
5229 220u
2225 22n2
I235
3224 12K 1%
5225 4u7
VCC
I234 2227 100p 50V
2226 100n 16V
3226 10K
TS2431 7227
I237
2V5(0V3)
3225 10K 1%
3610 1K0 1%
I171
I170
F116
6230 SS34
10V4(0V7)
2232 100p 50V
7230 L4940P
IN OUT COM
F114
+8V6
2230 470u 16V
2234 1u0
3232 1K0
2235 1u0
2231 47u 16V
I243
F140
F138 F139 F137
2238 10u 6.3V
2236 10u 16V
2233 10u 6.3V
2237 10u 16V
3270 150R
3271 150R
3272 150R
F107
MEASURED DC-VOLTAGES
NORMAL . . .
STANDBY (. . .)
H_16041_007.eps 171007

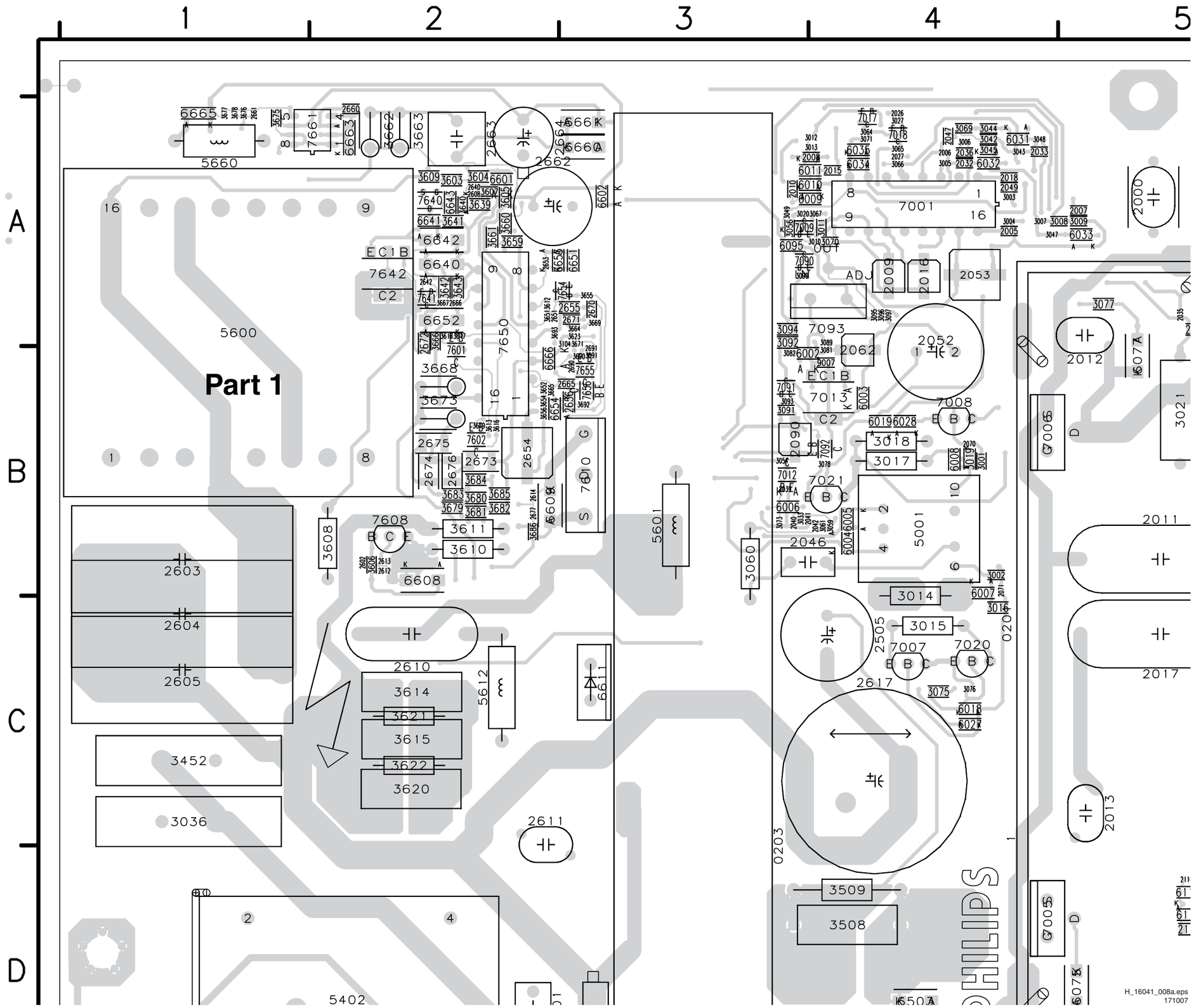
SEQUENCE DISCHARGE
VCC-SUPPLY
11V5(0V7)
7220 TCET1102(G)
I212
3206 2K7
I166
3207 2K7
I167
3208 2K7
I168
3209 2K7
I214
7212 TEA1507P
SMPS CONTROL CONTROL
CTRL DEM ISENSE
VCC DRIVER HVS DRAIN GND
I215
3212 1K0
2212 220n 16V
I236
7217 PSMN070
3149 4R7 NFR25
I216
6216 BZX384-C18
I169
I209
5220
BS29238-00
3217 10K
2217 330n 16V
I219
I240
I148
I218
3214 100R
I221
6213 BAS316
I223
3213 33K
3215 47K
3219 10K
2219 10p
6209 BYG10
3218 0R51
6220 BYG10
I245
3220 33R
6062 BZX384-C18
2061 100n
2215 470p
2211 470p
2210 47u 16V
6211 SS14
I224
I217 1K0
3216
I213
3202 47R
7202 BSN20
I208
I220
6202 BAS316
2203 100n 16V
3203 1K0
3204 100K
6205 BZX384-C18
2205 2u2 50V
3205 100K
I222
+30V
6204 BZX384-C5V6
I211
6206 BAS316
VA
F113
1200 T2A/250V 19382
87V (0V5)
6142 S3J
87V (0V5)
0V (0V5)
105V (0V)
7050 PSMN035
VS
I161
3051 8K2
I200
2058 1u0 250V
6050 BZX384-C18
2050 22n 50V
3053 10R 2322 693 60007
I201
3083 1K0
3082 1K0
3084 10K
+5V_INT_SW
5V2(0V)
6086 BAS316
3086 47K
104V(0V)
I204
I202
0V1(8V)
7052 IRFR18N15D
3085 47K
9207 7058 BC847BW
I225
I203
7059 PMST5550
3088 47K
2059 100n 16V
3087 47K
2061 100n 16V
6061 BZX384-C18
2214 4n7
2021 3n3 100V
I244
2213 4n7
3104 313 6128.2

Layout PDP FHP Supply (.2) (Overview Top Side)

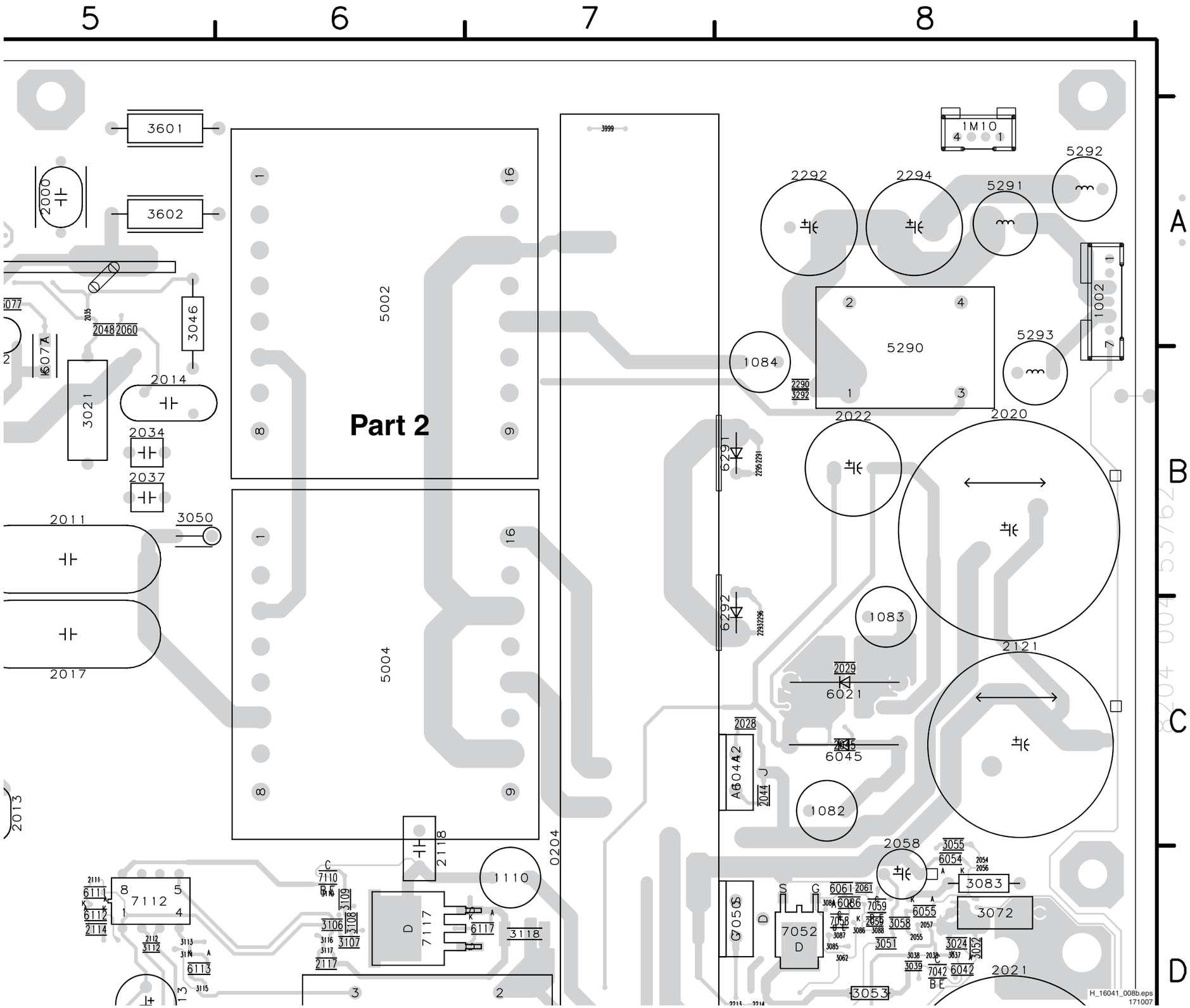


0201 C5
0203 D6
0204 D2
0308 G8
0309 G8
0311 G6
0323 F1
1002 A1
1003 F8
1004 F1
1082 C1
1083 B1
1084 A1
1110 D2
1200 E3
1260 G1
1400 F8
1402 F8
1450 F5
1460 E5
1M03 G4
1M05 G6
1M10 A1
1M46 G1
2000 A4
2001 F7
2002 F8
2003 F7
2004 E8
2011 B4
2012 A4
2013 C4
2014 B4
2017 C4
2019 E8
2020 B1
2021 D1
2022 B1
2034 B4
2037 B4
2046 B6
2052 A5
2058 D1
2113 D4
2118 D3
2121 C1
2122 E3
2133 E4
2218 E3
2225 F1
2229 E3
2230 E3
2261 G1
2269 F1
2270 F1
2292 A1
2294 A1
2400 F8
2401 E7
2402 F8
2403 E7
2404 F7
2405 E8
2406 E7
2407 D8
2408 E7
2410 F6
2503 F5
2505 C5
2510 F4
2600 E7
2601 D7
2603 B8
2604 C8
2605 C8
2610 C7
2611 D7
2616 D5
2617 C5
2662 A7
2663 A7
2664 A7
3014 B5
3015 C5
3017 B5
3018 B5
3021 B4
3036 C8
3046 A4
3050 B4
3053 D1
3060 B6
3072 D1
3083 D1
3143 E3
3149 F3
3220 G3
3270 F1
3271 F1
3368 F2
3400 F7
3401 G8
3404 F8
3450 E5
3451 E5
3452 C8
3506 F5
3508 D5
3509 D5
3601 A4
3602 A4
3608 B7
3610 B7
3611 B7
3614 C7
3615 C7
3620 C7
3621 C7
3622 C7
3662 A7
3663 A7
3668 B7
3673 B7
5001 B5
5002 A3
5004 C3
5005 E7
5121 D3
5220 F3
5225 E1
5229 F1
5260 G1
5268 G1
5290 B1
5291 A1
5292 A1
5293 B1
5401 F7
5402 D7
5500 F5
5503 F4
5600 B8
5601 B6
5612 C7
6021 C1
6044 C1
6045 C1
6120 D2
6225 F1
6260 F1
6267 G1
6291 B1
6292 C1
6501 F5
6502 F6
6506 F6
6600 D6
6611 C6
7001 A5
7002 D4
7003 E4
7004 D4
7005 D4
7006 B4
7007 C5
7008 B5
7020 C5
7021 B5
7050 D1
7093 A5
7112 D4
7120 E1
7217 F3
7220 E1
7230 E1
7260 G1
7500 G5
7501 G5
7608 B7
7610 B7
7650 A7
9002 E2
9009 G2
9023 F6
9025 F5

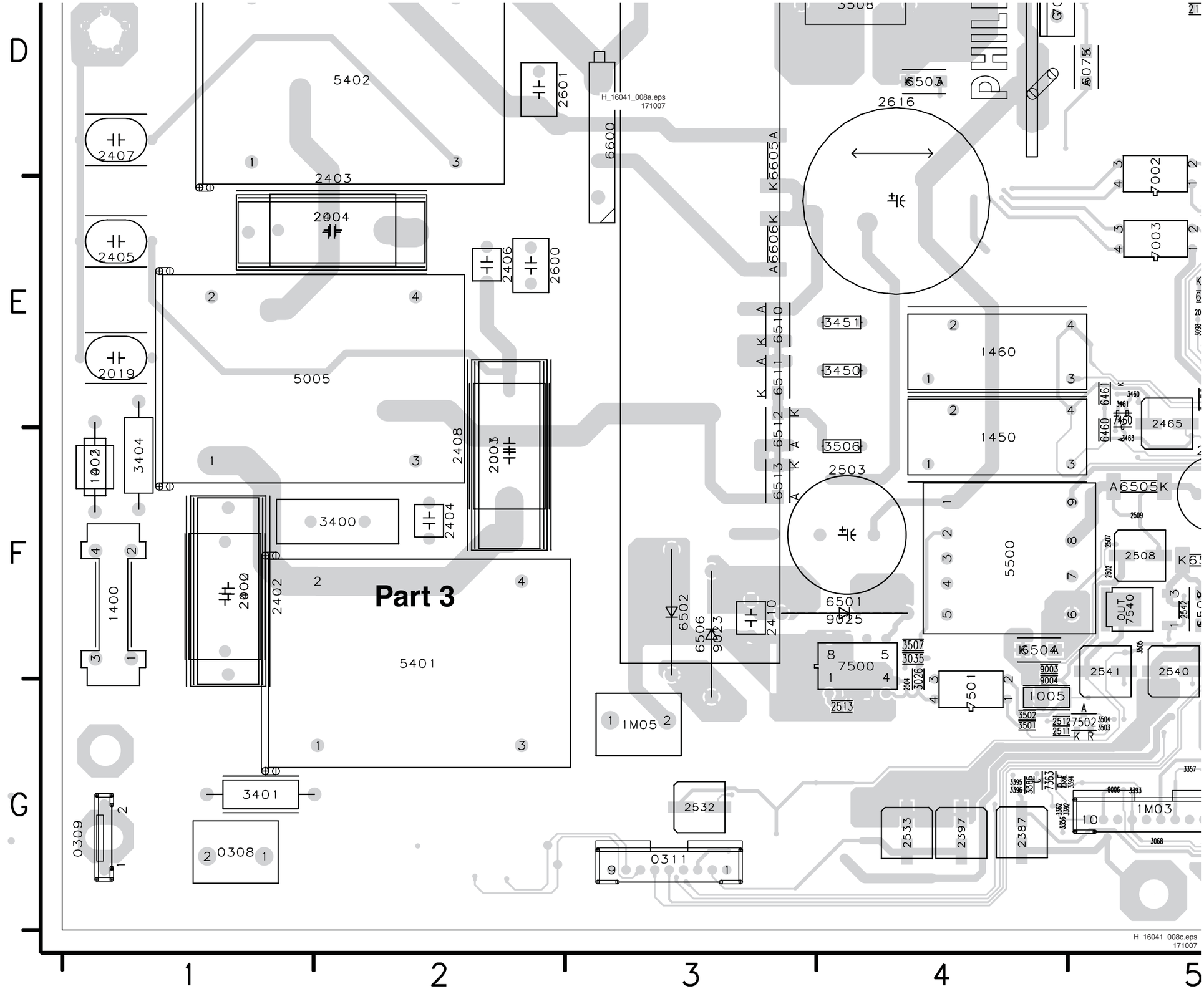
Layout PDP FHP Supply (.2) (Part 1 Top Side)



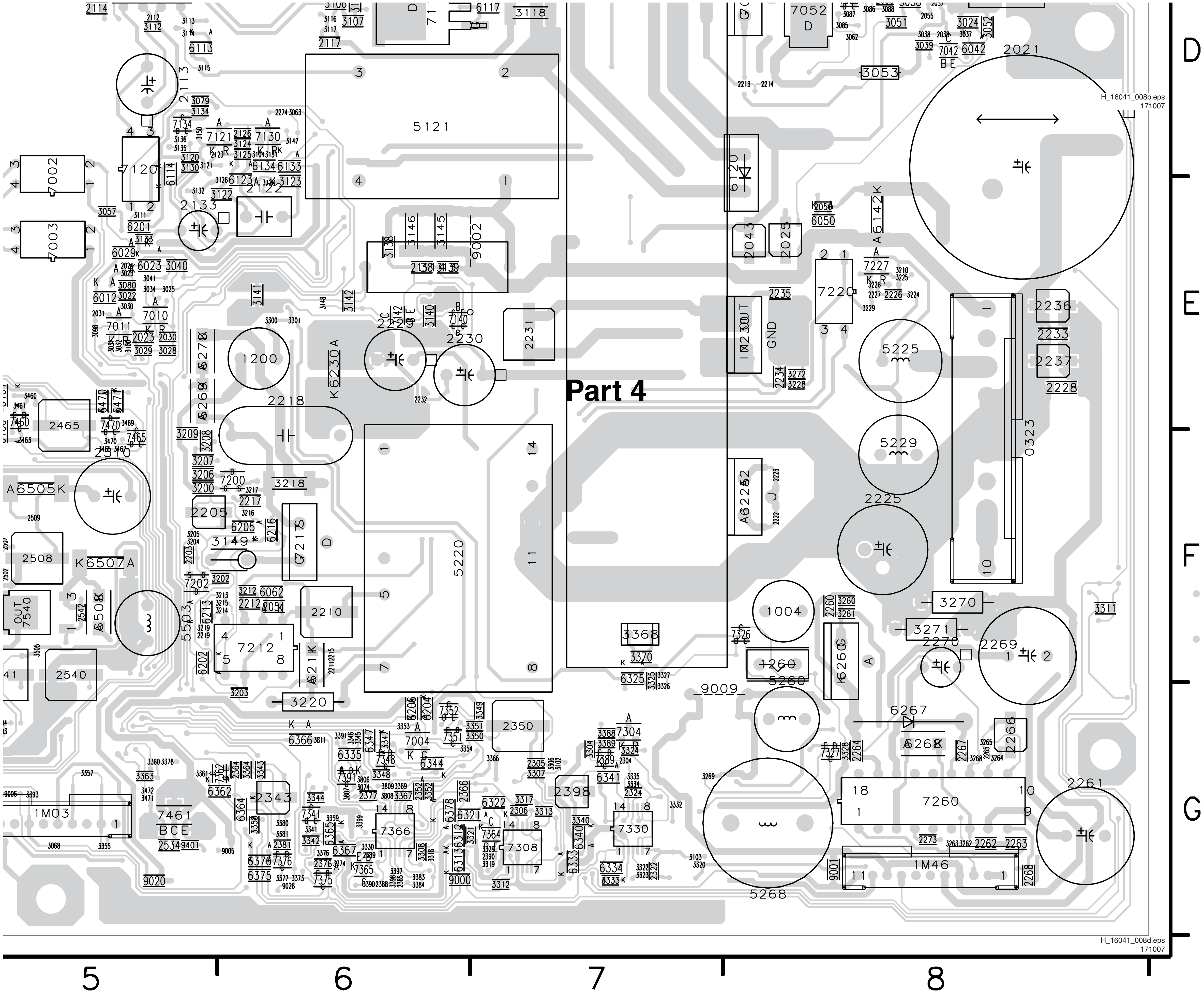
Layout PDP FHP Supply (.2) (Part 2 Top Side)



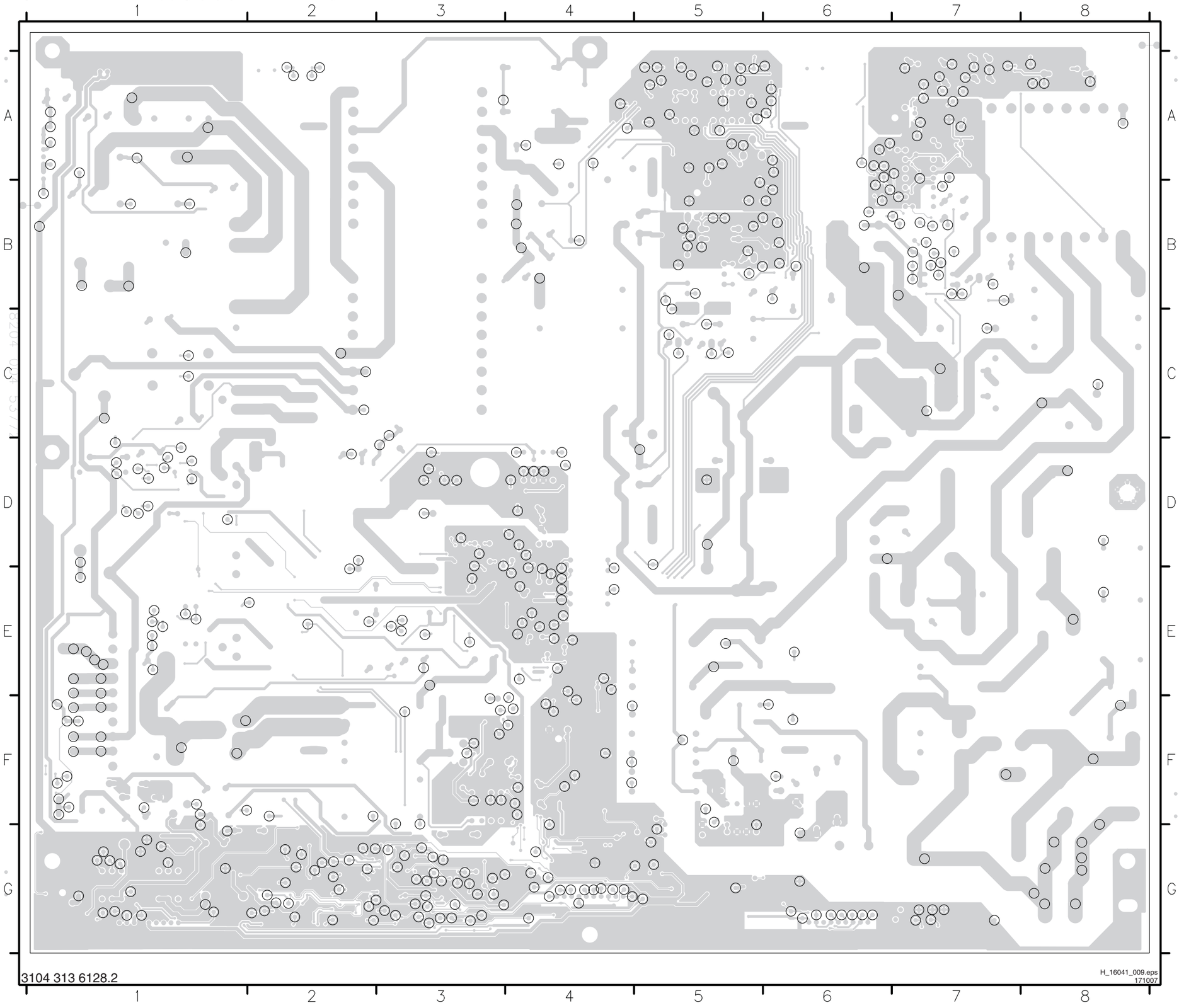
Layout PDP FHP Supply (.2) (Part 3 Top Side)



Layout PDP FHP Supply (.2) (Part 4 Top Side)



Layout PDP FHP Supply (.2) (Bottom View)



SSB: Tuner and IF

B1 TUNER & IF

*	STANDARD SD2	IDTV SD2	FM RADIO SD2
EUROPE	UV1318S/AI H N3	UV1318SD/A CPHN 3	UR1316S/A I H3
CHINA	UV1318SI/AI C H3	-	UR1316S/A I H3
AP(PAL)	UV1316E/A I H4	-	UR1316S/A I H3
NA/LA/AP(NTSC)	UV1338/A F SH4	-	UR1336/A F I S H3

*	EU	AP	CHINA	NAFTA
4102	Y	Y	--	Y
4103	--	--	Y	--
4104	--	Y	--	--
4106	Y	--	Y	--
4110	Y	Y	Y	Y
4111	Y	--	--	--
4113	--	Y	Y	--
4107	--	--	Y	--
4108	--	--	Y	--

*	1104	1105	1106
EUROPE	OFWK3953L	--	OFWK9656L
AP	OFWK7265L	--	OFWK9361L
CHINA	OFWK3956L	OFWK9355L	OFWK9352L
NAFTA	OFWM1967L	--	--

*	Non-EU	EU
3104	0R	10K
6103	-	Yes

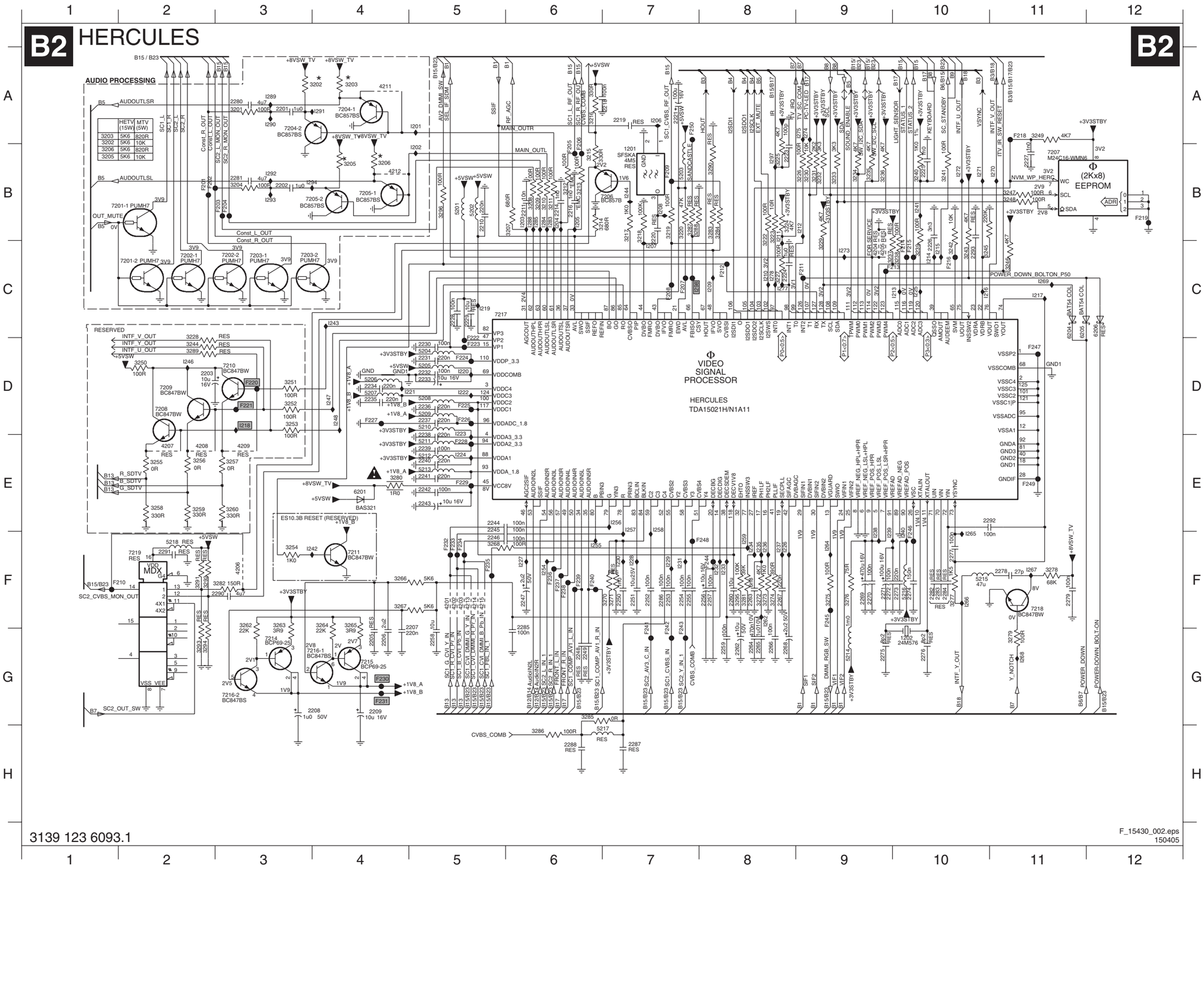
1101 C1 F106 D2
1102 A1 F107 D3
1103 E2 F108 B4
1104 C9 F109 E5
1105 D8 F110 C10
1106 E9 F111 C10
1107 F3 F112 E10
2101 A6 F113 F10
2102 A6 F114 G7
2103 B6 F115 F3
2104 D3 F116 G3
2105 D3 F117 G3
2106 D5 I101 D3
2107 E2 I102 C6
2108 E3 I103 D6
2109 D4 I104 E5
2110 F6 I105 D6
2111 F7 I106 D7
2112 F7 I107 F6
2113 B6 I108 F7
2114 E7 I109 F7
3101 D2 I110 D7
3102 D2 I111 F6
3103 D3 I112 C1
3104 D4 I113 D2
3105 D2
3106 E3
3107 C6
3108 C6
3109 D6
3110 C7
3111 E5
3112 E5
3113 D7
3114 E7
3115 F5
3116 F6
3117 F7
3118 F6
3119 F6
3120 F3
3121 F3
3122 F2
3123 G2
3124 C1
3125 C1
3126 E1
3127 E1
4102 C8
4103 C8
4104 C8
4105 C8
4106 C8
4107 D9
4108 D10
4109 E8
4110 F8
4111 F8
4112 F8
4113 F8
4114 F7
4115 B4
4116 C4
5101 B5
5102 A6
5103 B6
5105 C9
5106 E9
5107 D2
5108 D2
6101 D1
6102 D2
6103 D4
6104 C6
6105 C7
6106 G2
6107 G3
7101 D6
7102 D7
7103 F6
F101 B1
F102 C1
F103 C2
F104 C1
F105 C4

3139 123 6093.1

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SSB: Hercules

B2 HERCULES



F_15430_002.eps
150405

1201 B7	3215 B6	5209 D5	I216 C10	
1202 G10	3216 A6	5210 D5	I217 C11	
2201 A3	3217 B7	5211 E5	I218 D3	
2202 B3	3218 B7	5212 E5	I219 C5	
2203 D2	3219 B7	5213 E5	I220 D5	
2205 G4	3220 B7	5214 G9	I221 D5	
2206 G4	3222 B8	5215 F10	I222 D5	
2207 F5	3223 B8	5216 F10	I223 D5	
2208 G4	3224 B8	5217 H7	I224 E5	
2209 G4	3225 B8	5218 F2	I225 C10	
2210 B5	3226 B9	6201 E4	I226 F8	
2211 B6	3227 C8	6204 C11	I227 F6	
2214 B6	3228 D2	6205 C11	I228 F7	
2216 B6	3229 C9	6206 C12	I229 F7	
2218 A7	3230 B9	7201-1 B1	I230 F7	
2219 A4	3231 B9	7201-2 C2	I231 F7	
2220 B7	3232 B9	7202-1 C2	I232 F8	
2221 A7	3233 B9	7202-2 C3	I233 F8	
2223 B8	3234 B9	7203-1 C3	I234 F8	
2224 C8	3235 B9	7203-2 C3	I235 F8	
2225 B10	3236 B9	7204-1 A4	I236 F8	
2226 C10	3237 C9	7204-2 A3	I237 F8	
2227 B11	3238 C10	7205-1 B4	I238 F9	
2228 C5	3239 C10	7205-2 B4	I239 F9	
2229 C5	3240 B10	7206 B6	I240 F10	
2230 D5	3241 B10	7207 B11	I241 B10	
2231 D5	3242 C10	7208 D2	I242 F4	
2232 D5	3243 C10	7209 D2	I243 C4	
2233 D5	3244 D2	7210 D3	I244 B7	
2234 D4	3245 C10	7211 F4	I246 D2	
2235 D4	3246 C11	7214 G3	I247 D4	
2236 D5	3247 B11	7215 G4	I248 D4	
2237 D5	3248 B11	7216-1 G3	I254 F6	
2238 E5	3249 A11	7216-2 G3	I255 F6	
2239 E5	3250 D2	7217 C6	I256 E7	
2240 E5	3251 D3	7218 F11	I257 E7	
2241 E5	3252 D3	7219 F2	I258 E7	
2242 E5	3253 D3	F201 B2	I259 F8	
2243 E5	3254 F3	F202 B2	I262 F8	
2244 E5	3255 E2	F203 B3	I264 F9	
2245 E5	3256 E2	F204 B3	I265 F10	
2246 F5	3257 E3	F205 B6	I266 F10	
2247 F6	3258 E2	F206 B6	I267 F11	
2248 G6	3259 E2	F207 C7	I268 G11	
2249 G6	3260 E3	F208 C7	I269 C11	
2250 F7	3262 F3	F209 B7	I270 B11	
2251 F7	3263 F3	F210 F1	I271 B10	
2252 F7	3264 F4	F211 C9	I272 B10	
2253 F7	3265 F4	F212 C8	I273 C9	
2254 F7	3266 F4	F213 C10	I274 A9	
2255 F7	3267 F4	F214 C10	I275 A9	
2256 F8	3268 F5	F215 C10	I277 C8	
2257 F8	3270 F7	F216 C10	I278 C8	
2258 G5	3271 F7	F218 A11	I283 B6	
2259 G8	3272 F8	F219 B12	I284 B6	
2260 F8	3273 F8	F220 D3	I285 B6	
2262 G8	3274 F8	F221 D3	I288 B6	
2263 F8	3275 F9	F222 D5	I289 A3	
2264 G8	3276 F9	F223 D5	I290 A3	
2265 G8	3277 F10	F224 D5	I291 A4	
2266 G8	3278 F11	F225 D5	I292 B3	
2267 F8	3279 G11	F226 D5	I293 B3	
2268 G8	3280 E4	F227 D4	I294 B3	
2269 F9	3281 F8	F228 E5	I297 B8	
2270 F9	3282 F3	F229 E5	I298 C7	
2271 F9	3283 B8	F230 G4		
2272 F9	3284 B8	F231 G4		
2273 F10	3285 G6	F232 F5		
2274 F10	3286 H6	F233 F5		
2275 G9	3287 B7	F234 F5		
2276 G10	3288 B7	F235 F5		
2277 F10	3289 D2	F236 F6		
2278 F11	3290 B8	F237 F6		
2279 F11	3291 F2	F238 F6		
2280 A3	3292 F2	F239 F6		
2281 B3	3293 G2	F240 F6		
2282 F10	3294 G2	F241 G7		
2283 F10	3295 F8	F242 G7		
2284 F10	3296 B5	F243 G7		
2285 F6	4201 F5	F244 F8		
2286 F7	4202 F5	F245 F9		
2287 H7	4203 F5	F246 F10		
2288 H6	4204 C9	F247 D11		
2290 F3	4205 C9	F248 F8		
2291 F2	4206 F3	F249 E11		
2292 E11	4207 E2	F250 A7		
2293 C10	4208 E2	I201 A5		
3201 A3	4209 E3	I202 B5		
3202 A4	4211 A4	I203 B6		
3203 A4	4212 B4	I204 B6		
3204 B3	4213 F5	I205 B6		
3205 B4	4214 F5	I206 A7		
3206 B4	4215 F5	I207 C7		
3207 B6	5201 B5	I208 B7		
3208 B6	5202 B5	I209 C8		
3209 B6	5203 B7	I210 C8		
3210 B6	5204 D5	I211 B8		
3211 B6	5205 D5	I212 B9		
3212 B6	5206 D4	I213 C10		
3213 B6	5207 D4	I214 C10		
3214 B7	5208 D5	I215 C10		

SSB: Sync Interface

B3 SYNC INTERFACE

B3

B17 TO SIDE CONNECTORS

+3V3STBY
+5VSW
3431 1K0
6430 BZX384-C2V7
I453
6431 1N4148
I430
LED_SEL
I454
0V
7430 PDTC114ET
3V1
3432 RES
ITV_IR_SW_RESET

B2

HOUT
I443
+3V3STBY
3451 4K7
4436 RES
+3V3SW
7436-1 74LVC14APW
3453 100R
3454 100R
Hsync_SDTV

B19 B18 B13

VSYNC
I440
4437 RES
+3V3SW
7436-2 74LVC14APW
3455 100R
3456 100R
Vsync_SDTV

B18

B19

COL_HREF
4440
H_DELAY
4438 RES
3458 100R
3463 RES
+3V3SW
7436-3 74LVC14APW
7436-4 74LVC14APW
3459 100R
H_1FH

B13

COL_VA
4441
Vsync_SDTV
4439 RES
3461 100R
7436-6 74LVC14APW
7436-5 74LVC14APW
2449 100n
3462 100R
V_1FH

B7

SC1_CVBS_RF_OUT

B2 & B15

1440
I449
I450
BM05B-SRSS-TBT

+12VSW
5431
I451
I452
1441
(NC)
2447 10p
2448 10p
S3B-PH-SM4-TB

FOR ITV ONLY

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140405

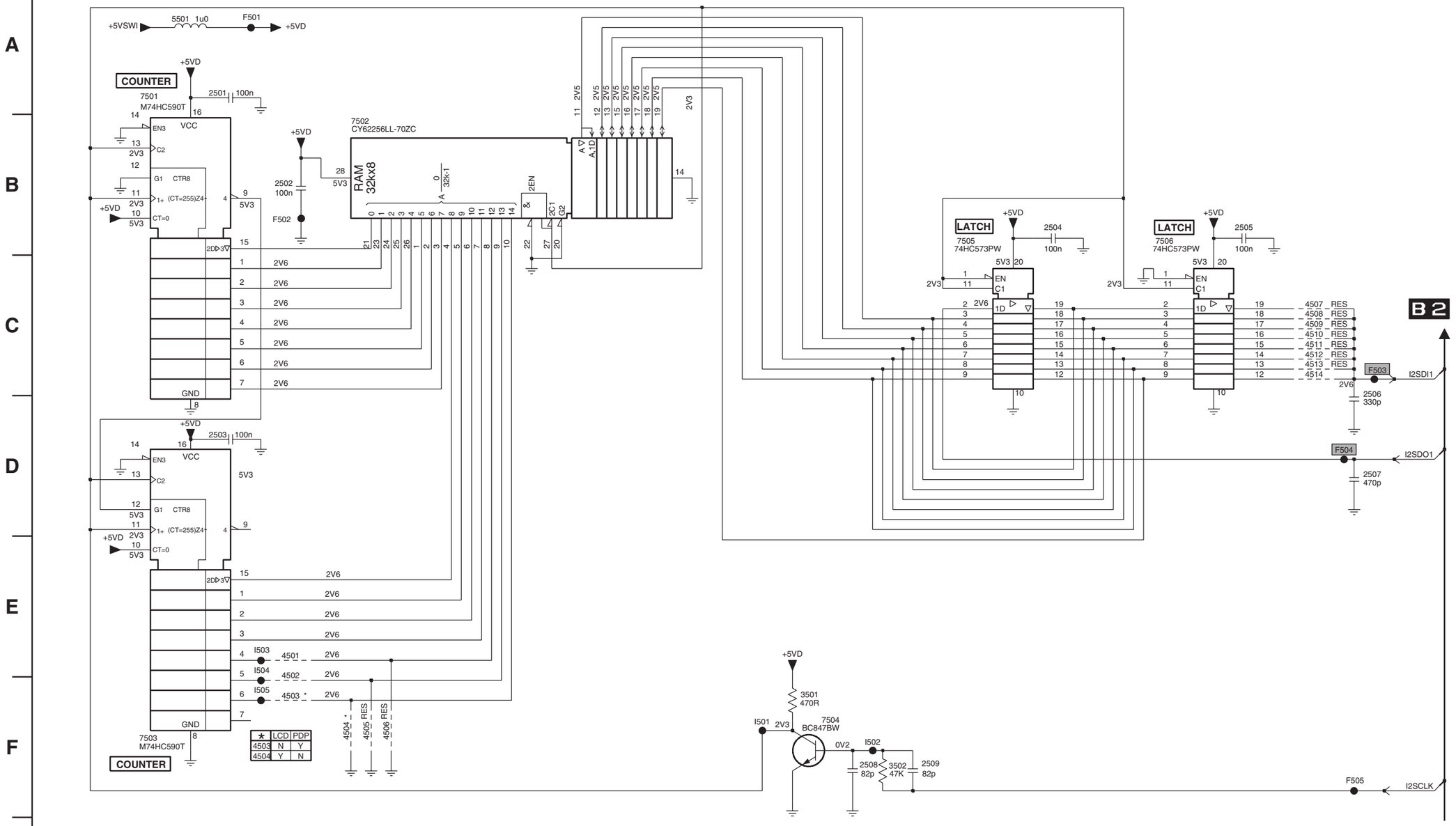
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1440 D9
1441 E9
2447 E8
2448 E9
2449 E4
3431 A3
3432 B3
3451 A5
3453 B6
3454 B7
3455 C6
3456 C7
3458 D2
3459 D4
3461 E2
3462 E4
3463 C4
4436 A6
4437 B6
4438 D2
4439 E2
4440 D2
4441 E2
5431 E8
6430 A3
6431 B3
7430 B3
7436-1 A6
7436-2 C7
7436-3 D3
7436-4 D4
7436-5 E4
7436-6 E3
I430 B3
I440 C6
I443 B5
I449 D8
I450 D8
I451 E9
I452 E9
I453 B3
I454 B2

SSB: Audio Delay line (Reserved)

B4 AUDIO DELAY LINE (RESERVED)

2501 A2
2502 B2
2503 D2
2504 B8
2505 B9
2506 C10
2507 D10
2508 F6
2509 F7
3501 F6
3502 F6
4501 E2
4502 F2
4503 F2
4504 F3
4505 F3
4506 F3
4507 C9
4508 C9
4509 C9
4510 C9
4511 C9
4512 C9
4513 C9
4514 C9
5501 A1
7501 A1
7502 B3
7503 F1
7504 F6
7505 B7
7506 B8
F501 A2
F502 B2
F503 C10
F504 D10
F505 F10
I501 F5
I502 F6
I503 E2
I504 E2
I505 F2



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SSB: Audio Processing

B5 AUDIO PROCESSING

FROM HERCULES B2

AUDOUTLSL

AUDOUTLSR

AUDIO-L

AUDIO-R

2616 2u2 4618 RES

2617 2u2 4619 RES

F601

F602

4611 RES

4612 RES

2603 1u0

2608 1u0

I608 HPIC_LIN

I610 HPIC_RIN

2604 470p

2609 470p

3604 22K

3609 22K

I618

I619

F603

F604

F605

7601-1 TS482IDT

7601-2 TS482IDT

2V6

5V3

3605 22K

3612 22K

2605 1u0

3610 100K

2610 1u0

3611 100K

2611 100u 16V

HPIC_LOUT

HPIC_ROUT

I602

I603

2615 470u 16V

2618 470u 16V

I604

I605

4609

4610

3632 39R

3633 39R

** 4604 RES

** 4605 RES

HP_LOUT

HP_ROUT

+5VSW

3625 3K3

2614 100n

4602

3.2 TO 4.3V

SOUND_ENABLE_1

2613 1u0 10V

3618 22K

+3V3SW

+3V3STBY

4616

4617 RES

7602-1 74HC08PW

7602-2 74HC08PW

7602-3 74HC08PW

7602-4 74HC08PW

I606

I607

I613

I614

I617

3V3

3628 RES

3629 RES

+5V

4621 RES

4620

7605 PDTA143ET

5V2

6601 BZX384-C3V3

5V

0V

2619 47u

3623 47K

3630 470R

3631 470R

7606-1 BC847BS

7606-2 BC847BS

3V4

I611

3V2

3615 10K

7607 BC847BW

I612

4606

RESERVED FOR UFD

+3V3STBY

3617 1K0

7604 BC847BW

3619 10K

I619

3616 1K0

7603 BC847BW

3620 10K

I616

3621 RES

2612 1u0 10V

4603

4614 RES

4615 RES

SOUND_ENABLE

HP_DET_R_DC

4613

ITV ONLY

4601 RES

3626 10K

3627 22K

POWER_DOWN

EXT_MUTE

OUT_MUTE

B16

B17

POR_AUDIO

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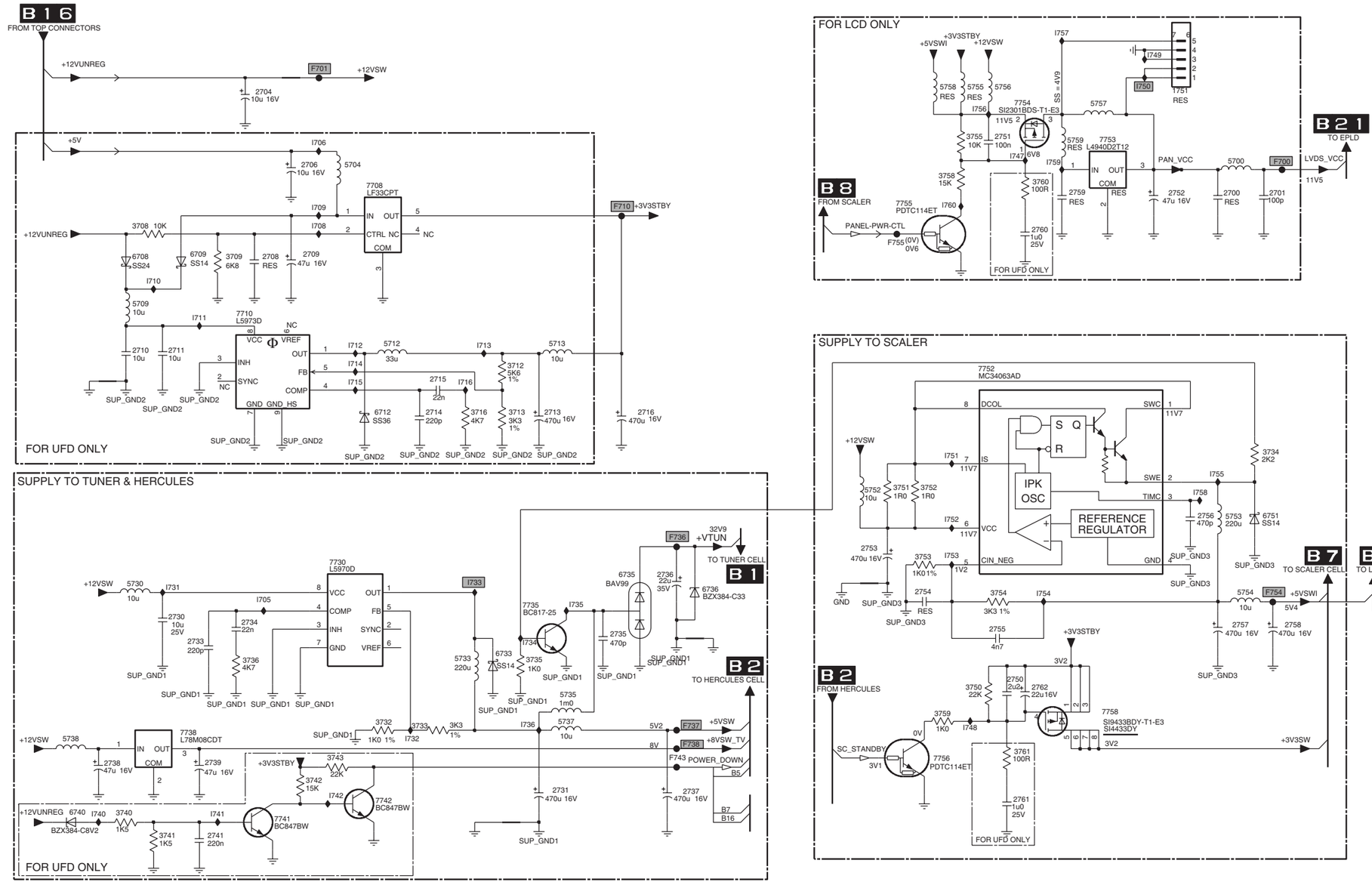
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2603 A5 I602 A8
2604 A6 I603 B8
2605 B6 I604 A9
2608 B5 I605 B9
2609 B6 I606 C4
2610 B6 I607 C4
2611 B6 I608 A5
2612 E9 I610 B5
2613 C8 I611 C7
2614 B8 I612 C6
2615 A8 I613 E3
2616 A4 I614 E4
2617 B4 I615 E4
2618 B8 I616 E8
2619 F5 I617 F5
3604 A6 I618 A6
3605 A7 I619 D8
3609 B6
3610 B6
3611 B6
3612 B7
3615 C7
3616 E9
3617 C9
3618 C8
3619 D8
3620 E8
3621 E8
3623 F5
3625 C6
3626 D2
3627 D2
3628 D5
3629 E5
3630 E5
3631 F5
3632 A9
3633 B9
4601 D2
4602 C8
4603 F8
4604 A9
4605 B9
4606 C7
4609 A9
4610 B9
4611 B4
4612 B4
4613 D2
4614 F8
4615 F8
4616 C4
4617 C5
4618 A4
4619 B4
4620 E5
4621 E5
6601 E4
7601-1 A7
7601-2 B7
7602-1 C4
7602-2 C5
7602-3 D5
7602-4 D6
7603 E8
7604 D8
7605 E4
7606-1 E6
7606-2 F6
7607 C7
F601 A4
F602 B4
F603 A6
F604 B6
F605 B6

SSB: DC-DC Converter

B6 DC-DC CONVERTER

B6



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1751 A10
2700 B11
2701 B11
2704 A3
2706 B3
2708 C3
2709 C3
2710 C2
2711 C2
2713 D5
2714 D4
2715 D4
2716 D6
2730 E2
2731 G5
2733 F2
2734 E3
2735 F6
2736 E6
2737 G6
2738 G2
2739 G3
2741 G3
2750 F9
2751 B9
2752 B10
2753 E8
2754 E8
2755 F9
2756 E10
2757 E11
2758 E11
2759 B9
2760 B9
2761 G9
2762 F9
3708 B2
3709 C3
3712 D5
3713 D5
3716 D5
3732 F4
3733 F4
3734 D11
3735 F5
3736 F3
3740 G2
3741 G2
3742 G3
3743 G4
3750 F9
3751 D8
3752 D8
3753 E8
3754 E9
3755 B9
3758 B8
3759 F8
3760 B9
3761 F9
5700 B11
5704 B4
5709 C2
5712 C4
5713 C5
5730 E2
5733 F5
5735 F5
5737 F5
5738 F1
5752 D8
5753 E11
5754 E11
5755 A9
5756 A9
5757 A9
5758 A8
5759 B9
6708 C2
6709 C2
6712 D4
6733 F5
6735 E6
6736 E6
6740 G2
6751 E11
7708 B4
7710 C3
7730 E3
7735 E5
7738 F2
7741 G3
7742 G4
7752 D9
7753 B10
7754 A9
7755 B8
7756 G8
7758 F10
F700 B11
F701 A3
F710 B6
F736 E6
F737 F6
F738 F6
F743 G6
F754 E11
F755 C8
I705 E3
I706 B3
I708 B3
I709 B3
I710 C2
I711 C2
I712 C4
I713 C5
I714 C4
I715 D4
I716 D5
I731 E2
I732 F4
I733 F5
I734 E5
I735 F5
I736 F5
I737 F5
I738 F1
I740 G2
I741 G3
I742 G4
I747 B9
I748 F8
I749 A10
I750 A10
I751 D8
I752 E8
I753 E8
I754 E9
I755 B9
I756 B8
I757 A9
I758 A9
I759 B9
I760 B8

SSB: Diversity Tables B1-B6

B1 TUNER & IF

Item	AP - non China	Europe	NAFTA/LT	AP - DVB	Europe - DVB	China	Description
1102						V	TUN V+U PLL IEC BGDKM B
1102		V					TUN V+U PLL IEC BGHIL B
1102			V				TUNER UV1338/A F S H-4
1102	V						TUNER UV1316E/A I H-4
1102				V	V		TUNER UV1318SD/A CP H N-4
1104		V			V		FIL SAW SM 38MHZ9 OFWK3953L R
1104						V	FIL SAW SM 38MHZ OFWM3956L R
1104			V				FIL SAW SM 45MHZ75 OFWM1967L R
1104	V			V			FIL SAW SM 38MHZ9 OFWK7265L R
1105						V	FIL SAW SM 38MHZ OFWK3955L R
1106		V			V		FIL SAW SM 38MHZ9 OFWK9656L R
1106						V	FIL SAW SM 38MHZ OFWK9352L R
1106	V			V			FIL SAW SM 38MHZ9 OFWK9361L R
3101	V		V			V	RST SM 0603 100R PM5 COL
3102	V		V			V	RST SM 0603 100R PM5 COL
3104		V			V		RST SM 0603 10K PM5COL
3104	V		V	V		V	RST SM 0603 JUMP. 0R05 COL
3107	V	V		V	V	V	RST SM 0603 6K8 PM5 COL
3108	V	V		V	V	V	RST SM 0603 2K2 PM5 COL
3109	V	V		V	V	V	RST SM 0603 2K2 PM5 COL
3110						V	RST SM 0603 2K2 PM5 COL
3111	V	V		V	V	V	RST SM 0603 22K PM5 COL
3112	V	V		V	V	V	RST SM 0603 18K PM5 COL
3113						V	RST SM 0603 22K PM5 COL
3114						V	RST SM 0603 47K PM5 COL
4102	V	V	V	V	V		RST SM 0603 JUMP. 0R05 COL
4103						V	RST SM 0603 JUMP. 0R05 COL
4104	V			V			RST SM 0603 JUMP. 0R05 COL
4106		V	V		V	V	RST SM 0603 JUMP. 0R05 COL
4107						V	RST SM 0603 JUMP. 0R05 COL
4108						V	RST SM 0603 JUMP. 0R05 COL
4110	V	V		V	V	V	RST SM 0603 JUMP. 0R05 COL
4111		V			V		RST SM 0603 JUMP. 0R05 COL
4113	V			V		V	RST SM 0603 JUMP. 0R05 COL
5101	V	V		V	V	V	FXDIND SM 0805 0U39 PM10 COL R
5101			V				FXDIND SM 0805 0U68 PM10 COL R
5102	V	V	V	V		V	FXDIND SM 0805 12U PM10 COL R
5102					V		FXDIND SM 1008 6U8 PM5 COL R
5107				V	V		FXDIND 0603 100MHZ 600R COL R
5107		V					RST SM 0603 100R PM5 COL
5108				V	V		FXDIND 0603 100MHZ 600R COL R
5108		V					RST SM 0603 100R PM5 COL
6103		V			V		DIO SIG SM BAS316 (COL) R
6105						V	DIO SIG SM 1SS356 (RHM0) R
7101	V	V		V	V	V	TRA SIG SM BC847BW (COL) R
7102						V	TRA SIG SM BC847BW (COL) R

B2 HERCULES

Item	LC4.3A AB (DVB-T)	LC4.3E AB/LC4.8E AB/LC4.9E AB (DVB-T)	LC4.3U/L	LC4.3E/LC4.8E/LC4.9E	LC4.3E W/O 3D COMB FILTER	LC4.3A - CHINA	LC4.3A - AP (non-China)	Description
2203	V	V		V	V	V	V	ELCAP SM 16V 10U PM20 COL R
2229			V					CER2 0805 X5R 6V3 10U PM10 R
2244	V	V		V	V			CER2 0402 Y5V 16V 100N COL
2245	V	V		V	V			CER2 0402 Y5V 16V 100N COL
2246	V	V		V	V			CER2 0402 Y5V 16V 100N COL
2255	V	V	V	V		V	V	CER2 0402 Y5V 16V 100N COL
2286	V	V	V	V		V	V	CER2 0402 Y5V 16V 100N COL
2289	V							CER2 0805 Y5V 10V 4U7 P8020 R
2289				V				RST SM 0603 150R PM5 COL
2290	V	V		V	V			CER2 0805 Y5V 10V 4U7 P8020 R
2291	V	V		V				CER2 0402 Y5V 16V 100N COL
2292		V						CER2 0402 Y5V 16V 100N COL
3250		V		V	V	V	V	RST SM 0402 100R PM5 COL
3251		V		V	V	V	V	RST SM 0402 100R PM5 COL
3252		V		V	V	V	V	RST SM 0402 100R PM5 COL
3253		V		V	V	V	V	RST SM 0402 100R PM5 COL
3255		V		V	V	V	V	RST SM 0402 JUMP. 0R05 COL
3256		V		V	V	V	V	RST SM 0402 JUMP. 0R05 COL
3257		V		V	V	V	V	RST SM 0402 JUMP. 0R05 COL
3258		V		V	V	V	V	RST SM 0402 1K PM5 COL
3259		V		V	V	V	V	RST SM 0402 1K PM5 COL
3260		V		V	V	V	V	RST SM 0402 1K PM5 COL
3270								RST SM 0402 10K PM5 COL
3282		V						RST SM 0603 150R PM5 COL
3285	V	V	V	V		V	V	RST SM 0402 JUMP. 0R05 COL
3286	V	V	V	V		V	V	RST SM 0402 100R PM5 COL
3291	V							RST SM 0402 47K PM5 COL
3292		V		V				RST SM 0402 12K PM5 COL
3292	V							RST SM 0402 47K PM5 COL
3293	V							RST SM 0402 47K PM5 COL
3294	V	V		V				RST SM 0402 47K PM5 COL
3295	V	V		V	V	V	V	RST SM 0402 100K PM5 COL
3296	V	V						RST SM 0402 100R PM5 COL
4206			V		V	V	V	RST SM 0805 JUMP. 0R05 COL R
4213	V	V						RST SM 0402 JUMP. 0R05 COL
4214	V	V						RST SM 0402 JUMP. 0R05 COL
4215	V	V						RST SM 0402 JUMP. 0R05 COL
5218	V	V		V				IND FXD 1206 EMI 100MHZ 120R R
6206	V	V						DIO SIG SM BAT54 SOD323 COL R
7208		V		V	V	V	V	TRA SIG SM BC847BW (COL) R
7209		V		V	V	V	V	TRA SIG SM BC847BW (COL) R
7210		V		V	V	V	V	TRA SIG SM BC847BW (COL) R
7217			V			V		IC SM TDA15011H/N1BD0 (PHSE) Y
7217	V	V		V	V		V	IC SM TDA15021H/N1B91 (PHSE) Y
7219	V	V		V				IC SM 74HC4053D (PHSE) R

B3 SYNC INTERFACE

Item	26/32PFxxxx - AP/NAFTA/LT	EU & AP DVB sets	LC4.3E/LC4.9x/LC4.8x/LC4.3A-China	26PF4310/10	Description
2449	V	V	V		CER2 0402 Y5V 16V 100N COL
3432		V			RST SM 0402 2K7 PM5 COL
3458	V	V	V		RST SM 0402 100R PM5 COL
3459	V	V	V		RST SM 0402 100R PM5 COL
3461	V	V	V		RST SM 0402 100R PM5 COL
3462	V	V	V		RST SM 0402 100R PM5 COL
4436				V	RST SM 0402 JUMP. 0R05 COL
4437				V	RST SM 0402 JUMP. 0R05 COL
4440	V	V	V		RST SM 0402 JUMP. 0R05 COL
4441	V	V	V		RST SM 0402 JUMP. 0R05 COL
6430	V		V	V	DIO REG SM PDZ2.4B (PHSE) R
6431	V		V	V	DIO SIG SM 1N4148WS (VISH) R
7436	V	V	V		IC SM 74LVC14APW (PHSE) R

B5 AUDIO WITHOUT AMPLIFIER

Item	26/32PF	37/42/50PF	Description
2612		V	CER2 0603 Y5V 10V 1U COL
2613	V		CER2 0603 Y5V 10V 1U COL
2616	V		CER2 0603 X5R 6V3 2U2 PM10 R
2617	V		CER2 0603 X5R 6V3 2U2 PM10 R
3615	V		RST SM 0402 10K PM5 COL
3616		V	RST SM 0402 1K PM5 COL
3617		V	RST SM 0402 1K PM5 COL
3618	V		RST SM 0402 22K PM5 COL
3619		V	RST SM 0402 10K PM5 COL
3620		V	RST SM 0402 10K PM5 COL
3623	V		RST SM 0402 47K PM5 COL
3625	V		RST SM 0402 3K3 PM5 COL
3627	V		RST SM 0402 22K PM5 COL
3628		V	RST SM 0402 10K PM5 COL
3629		V	RST SM 0402 22K PM5 COL
3630	V		RST SM 0402 330R PM5 COL
3630		V	RST SM 0402 470R PM5 COL
3631	V		RST SM 0402 330R PM5 COL
3631		V	RST SM 0402 470R PM5 COL
3632		V	RST SM 0402 RC31 39R PM5 R
3633		V	RST SM 0402 RC31 39R PM5 R
4601		V	RST SM 0603 JUMP. 0R05 COL
4602	V		RST SM 0603 JUMP. 0R05 COL
4603	V		RST SM 0603 JUMP. 0R05 COL
4606		V	RST SM 0603 JUMP. 0R05 COL
4609	V		RST SM 0603 JUMP. 0R05 COL
4610	V		RST SM 0603 JUMP. 0R05 COL
4611	V		RST SM 0603 JUMP. 0R05 COL
4612	V		RST SM 0603 JUMP. 0R05 COL
4613	V		RST SM 0603 JUMP. 0R05 COL
4614		V	RST SM 0603 JUMP. 0R05 COL
4615		V	RST SM 0603 JUMP. 0R05 COL
4616	V		RST SM 0603 JUMP. 0R05 COL
4617		V	RST SM 0603 JUMP. 0R05 COL
4618		V	RST SM 0603 JUMP. 0R05 COL
4619		V	RST SM 0603 JUMP. 0R05 COL
4620	V		RST SM 0603 JUMP. 0R05 COL
4621		V	RST SM 0603 JUMP. 0R05 COL
7603		V	TRA SIG SM BC847BW (COL) R
7604		V	TRA SIG SM BC847BW (COL) R
7607	V		TRA SIG SM BC847BW (COL) R

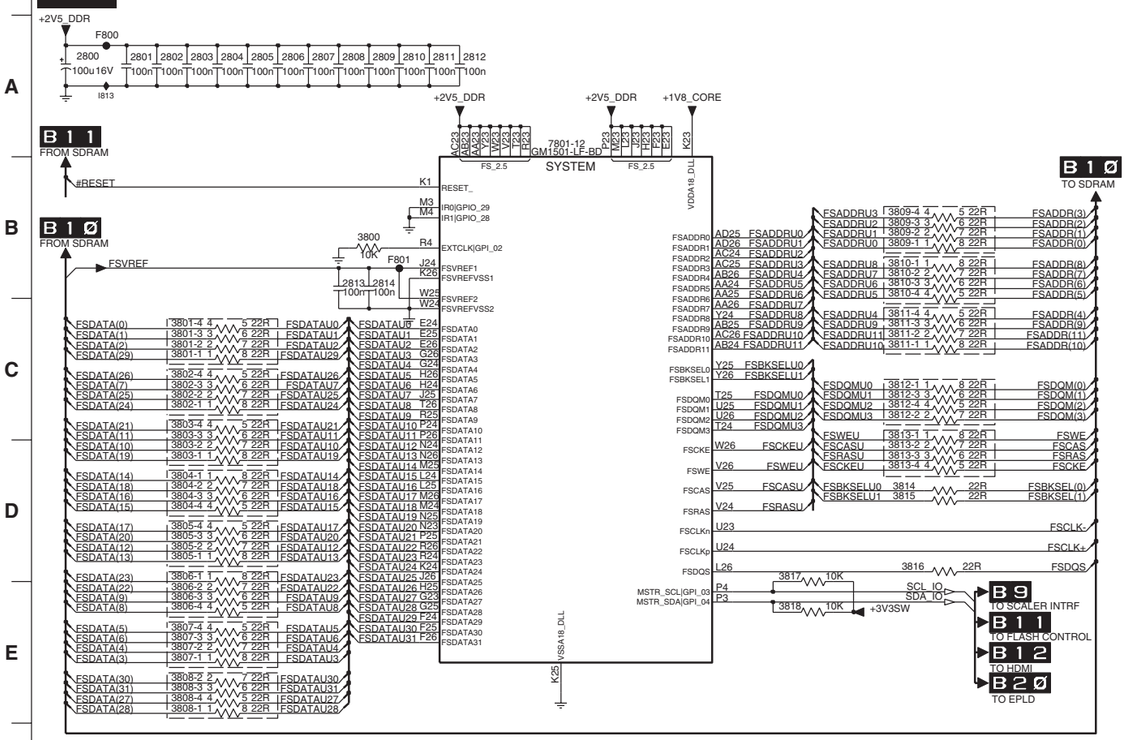
B6 DC DC CONVERTER

Item	26/32PF LCD	37/42PF LCD	42/50PF PDP	DVB PDP 42PF	DVB LCD 37PF	Description
2701	V	V			V	CER1 0402 NP0 50V 100P COL
2706		V	V	V	V	ELCAP SM 16V 10U PM20 COL R
2709		V	V	V	V	ELCAP SM 16V 47U PM20 COL R
2710		V	V	V	V	CER2 1210 Y5V 25V 10U P8020 R
2711		V	V	V	V	CER2 1210 Y5V 25V 10U P8020 R
2713		V	V	V	V	ELCAP SM SEV 16V 470U PM20 R
2714		V	V	V	V	CER2 0402 X7R 50V 220P COL
2715		V	V	V	V	CER2 0402 X7R 16V 22N PM10 R
2741		V	V	V	V	CER2 0603 X7R 10V 220N COL
2751	V	V			V	CER2 0402 Y5V 16V 100N COL
2752	V	V			V	ELCAP SM 16V 47U PM20 COL R
2760	V	V			V	CER2 1206 X7R 25V 1U PM10 R
2761		V	V	V	V	CER2 1206 X7R 25V 1U PM10 R
3708		V	V	V	V	RST SM 0402 10K PM5 COL
3709		V	V	V	V	RST SM 0402 6K8 PM5 COL
3712		V	V	V	V	RST SM 0603 RC22H 5K6 PM1 R
3713		V	V	V	V	RST SM 0603 RC22H 3K3 PM1 R
3716		V	V	V	V	RST SM 0402 4K7 PM5 COL
3740		V	V	V	V	RST SM 0402 1K5 PM5 COL
3741		V	V	V	V	RST SM 0402 1K5 PM5 COL
3742		V	V	V	V	RST SM 0402 15K PM5 COL
3743		V	V	V	V	RST SM 0402 22K PM5 COL
3755	V	V			V	RST SM 0402 10K PM5 COL
3758	V	V			V	RST SM 0402 15K PM5 COL
3760	V	V			V	RST SM 0402 100R PM5 COL
3761		V	V	V	V	RST SM 0402 100R PM5 COL
5700	V	V			V	IND FXD 1206 EMI 100MHZ 120R R
5704		V	V	V	V	IND FXD SM 1206 10U PM20 R
5709		V	V	V	V	IND FXD SM 7032 10U PM20 R
5712		V	V	V	V	IND FXD SM 12565 33U PM20 R
5713		V	V	V	V	INDFXD SM 10145 10U PM20 R
5756	V	V			V	IND FXD 1206 EMI 100MHZ 120R R
5757	V	V			V	IND FXD 1206 EMI 100MHZ 120R R
6708		V	V	V	V	DIO REC SS24 COL R
6709		V	V	V	V	DIO REC SS14 COL R
6712		V	V	V	V	DIO REC SS36 COL R
6740		V	V	V	V	DIO REG SM PDZ8.2B (PHSE) R
7708		V	V	V	V	IC SM LF33CPT (ST00) R
7710		V	V	V	V	IC SM E-L5973D (ST00) R
7741		V	V	V	V	TRA SIG SM BC847BW (COL) R
7742		V	V	V	V	TRA SIG SM BC847BW (COL) R
7754	V	V			V	FET POW SM SI2301BDS-E3(VISH)R
7755	V	V			V	TRA SIG SM PDTC114ET (COL) R

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SSB: Scaler

B7 SCALER



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1801 B12 1802 G14 2800 A1 2801 A1 2802 A1 2803 A1 2804 A2 2805 A2 2806 A2 2807 A2 2808 A2 2809 A3 2810 A3 2811 A3 2812 A3 2813 B2 2814 B3 2815 A9 2816 A9 2817 A10 2818 A10 2819 A10 2820 A12 2821 A12 2822 A12 2823 A10 2824 A12 3800 B3 3801-1 C1 3801-2 C1 3801-3 C1 3801-4 C1 3802-1 C1 3802-2 C1 3802-3 C1 3802-4 C1 3803-1 D1 3803-2 D1 3803-3 C1 3803-4 C1 3804-1 D1 3804-2 D1 3804-3 D1 3804-4 D1 3805-1 D1 3805-2 D1 3805-3 D1 3805-4 D1 3806-1 D1 3806-2 E1 3806-3 E1 3806-4 E1 3807-1 E1 3807-2 E1 3807-3 E1 3807-4 E1 3808-1 E1 3808-2 E1 3808-3 E1 3808-4 E1 3809-1 B6 3809-2 B6 3809-3 B6 3809-4 B6 3810-1 B6 3810-2 B6 3810-3 B6 3810-4 B6 3811-1 C6 3811-2 C6 3811-3 C6 3811-4 C6 3812-1 C6 3812-2 C6 3812-3 C6 3812-4 C6 3813-1 C6 3813-2 D6 3813-3 D6 3813-4 D6 3814 D6 3815 D6 3816 D6 3817 D6 3818 E6 3819 F2 3820 F1 3822 G5 3823 F5 3824 B12 3825-1 F9 3825-2 F9 3825-3 F9 3825-4 F9 3826-1 F9 3826-2 F9 3826-3 F9 3826-4 F9 3827 F13 3828 F13 3829 F13 3830 H10 3831 I9 3832 I9 3833 I9 3834 G13 3835 G13 3836 G13 3837 G14 3838 G14 3839 G3 3840 I3 3841 H14 4801 H5 7801-11 A11 7801-12 A4 7801-4 C11 7801-5 E11 7801-6 F4 7801-9 G11 F800 A1 F801 B3 F802 A9 F803 G14 F804 G14 I800 G2 I801 B12 I802 F10 I803 F10 I804 E12 I805 E12 I806 F12 I807 F12 I808 F12 I809 G12 I810 G12 I811 G14 I812 F3 I813 A1 I815 G3 I816 G2 I817 H5 I818 F3 I819 I10 I820 I10 I821 I10 I822 G12

SSB: Scaler Supply

B8 SCALER

B8

SUPPLY FOR SCALER

+3V3SW
5900 +3V3_PLL
5901 +3V3_ADC
5902 +3V3_DVI
5903 +3V3_IO
5904 F900 +3V3_LBADC
5905 +3V3_LVDSA
5906 +3V3_LVDSB
5907 +3V3_LVDS

+3V3SW 7900 LF25CDT I900 5908 +2V5_DDR
2900 100n 2901 1n0 2902 470u 16V

+3V3SW 7901 LD1086D2T18 I901 I902 +1V8
2903 100n 2904 47u 16V
5909 +1V8_ADC
5910 +1V8_DVI
5911 +1V8_CORE

+3V3_IO F901 2905 100u 16V 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916 100n
+1V8_CORE F902 2917 100u 16V 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 100n

7801-13 GM1501-LF-BD SUPPLY
IO_3.3: AC10 AC8 AC6 AC4 AB4 AA4 Y4 W4 D23 D22 D17
CORE_1.8: U17 U16 U11 U10 T17 T16 T11 L16 L11 K17 K16 K11 K10
D_GND: A13 B13 K12 K13 K14 K15 L12 L13 L14 L15 L17 M10 M11 M12 M13 M14 M15 M16 M17 N10 N11 N12 N13 N14 N15 N16 N17 P10 P11 P12 P13 P14 P15 P16 P17 R10 R11 R12 R13 R14 R15 R16 R17 T10 T12 T13 T14 T15 U12 U13 U14 U15 AD15
I905

7801-14 GM1501-LF-BD NC: NC A1, AC17 NC; NC C5, K3 NC; NC NC; NC D5, F1 NC

B2 KEYBOARD 4900 RES

+3V3_LBADC 2940 47u 16V 2941 100n
7801-3 GM1501-LF-BD ADC
C12 LBADC_IN1
(RES) B12 LBADC_IN2
(RES) A12 LBADC_IN3
D12 LBADC_RETURN
LBADC_GND D13
LBADC_33 C13
2942 100n

F903 2930 2931 2932 2933 100n
+1V8_DVI D6 D8 D9 D10 DVI_1.8
+3V3_DVI C11 C10 C9 C8 C6 DVI_3.3
F904 2934 47u 16V 2935 2936 2937 2938 2939 100n

B14 TO DIGITAL-IO (SCART ONLY)
7801-2 GM1501-LF-BD DVI
SCL_DVI N4 DVI_SCL|GPI_07
SDA_DVI N3 DVI_SDA|GPI_08
RXC+IN A6 RXCp
RXC-IN B6 RXCn
RX0+IN A8 RX0p
RX0-IN B8 RX0n
RX1+IN A9 RX1p
RX1-IN B9 RX1n
RX2+IN A10 RX2p
RX2-IN B10 RX2n
B11 REXT
DVI_GND: A7 A11 B5 B7 C7 D7 D11
I906

7801-10 GM1501-LF-BD DISPLAY PWR
AD19 LVDSA_GND_1 VDDD33_LVDS AE17 F905 +3V3_LVDS
AC19 LVDSA_GND_2 LVDSA_3.3_3 AC22 F906 +3V3_LVDSA
AC20 LVDSA_GND_3 LVDSA_3.3_2 AC21
AC13 LVDSB_GND_1 LVDSA_3.3_1 AD20
AC14 LVDSB_GND_2 LVDSB_3.3_3 AC12 F907 +3V3_LVDSB
AC15 LVDSB_GND_3 LVDSB_3.3_2 AD13
AD17 VSSD33_LVDS LVDSB_3.3_1 AD12
2945 22u 16V 2946 2947 2948 100n 2949 100n
2950 22u 16V 2951 2952 100n

B16 FROM DC-DC CONVERTER
B6 PANEL-PWR-CTL
B16 TO TOP CONN.
7801-7 GM1501-LF-BD CTRL
3900 3K3 I904 AC16 OEXTR
FAN_SPEED C26 PWM0|GPIO_10
HD_FILTER C25 PWM1|GPIO_11
PPWR|GPIO_08 A26
PBIAS|GPIO_09 B26 LAMP_ON_OFF
DCLK|GPIO_17 AC7 NC
PWM2|GPIO_12 D26 I903 BU_LHT_ADJ2 (RES)

B18 ADC
B19 & B2 TO COLUMBUS / HERCULES
B13 TO MUX-SYNC INTERFACE
+3V3STBY 3901 RES 3902 RES 2953 100n 2954 100n
F908 +1V8_ADC A4 A3
+3V3_ADC F909 2955 22u 16V 2956 2957 2958 2959 100n
7801-1 GM1501-LF-BD ANA-IN
ADC_1.8 ADC_3.3
AVSYNC L3 AVSYNC
AHSYNC L4 AHSYNC
SCL N2 3903 100R VGA_SCL|GPI_05
SDA N1 3904 100R VGA_SDA|GPI_06
SOG C3 SOG
R_PR+ D2 REDp
R_PR- D1 REDn
G_Y+ C2 GREENp
G_Y- C1 GREENn
B_PB+ B2 BLUEp
B_PB- B1 BLUEn
ADC_AGND C4 D4 E1 E4 F910 A5 B4 ADC_DGND

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2900 D1 F906 D10
2901 D2 F907 D10
2902 D2 F908 E9
2903 E1 F909 E10
2904 E2 F910 G9
2905 A4 I900 C2
2906 A4 I901 E1
2907 A4 I902 E2
2908 A4 I903 G6
2909 A4 I904 F4
2910 A5 I905 C4
2911 A5 I906 E6
2912 A5
2913 A5
2914 A6
2915 A6
2916 A6
2917 A7
2918 A7
2919 A7
2920 A7
2921 A7
2922 A8
2923 A8
2924 A8
2925 A8
2926 A9
2927 A9
2928 A9
2929 A9
2930 C5
2931 C5
2932 C5
2933 C5
2934 C7
2935 C7
2936 C7
2937 C8
2938 C8
2939 C8
2940 B9
2941 B10
2942 C9
2945 D10
2946 D11
2947 D11
2948 D11
2949 D11
2950 D10
2951 D11
2952 D11
2953 E8
2954 E8
2955 E10
2956 E10
2957 E10
2958 E11
2959 E11
3900 F4
3901 E8
3902 E8
3903 F8
3904 F8
4900 B9
5900 A1
5901 B1
5902 B1
5903 B1
5904 B1
5905 C1
5906 C1
5907 C1
5908 C2
5909 D2
5910 E2
5911 E2
7801-1 F9
7801-10 C9
7801-13 B6
7801-14 A10
7801-2 C6
7801-3 B10
7801-7 F5
7900 C1
7901 D1
F900 B2
F901 A4
F902 A7
F903 C5
F904 C7
F905 D10

SSB: Scaler Interface

B9 SCALER INTERFACE

B9

7801-8
GM1501-LF-BD

ACp|GPIO_G06_B6|DORED8 AE20
ACn|GPIO_G06_B7|DORED9 AF20
A3p|GPIO_G06_B4|DORED6 AE19
A3n|GPIO_G06_B5|DORED7 AF19
A2p|GPIO_G05_B1|DOGRN3 AE21
A2n|GPIO_G05_B2|DOGRN4 AF21
A1p|GPIO_G05_B4|DOGRN6 AE22
A1n|GPIO_G05_B5|DOGRN7 AF22
A0p|GPIO_G05_B6|DOGRN8 AE23
A0n|GPIO_G05_B7|DOGRN9 AF23
NC
SHIELD5|DEBLU5 AD14
SHIELD4|DEBLU2 AE13
SHIELD3|DEGRN5 AE11
SHIELD2|DEGRN4 AD11
SHIELD1|DEGRN3 AC11
SHIELD0|DEGRN2 AF10
BCp|DEGRN8 AE12
BCn|DEGRN9 AF13
B3p|DEGRN6 AF11
B3n|DEGRN7 AF12
B2p|DEBLU3 AF14
B2n|DEBLU4 AE14
B1p|DEBLU6 AF15
B1n|DEBLU7 AE15
B0p|DEBLU8 AF16
B0n|DEBLU9 AE16
LVDS

TXBC+ TXBC-
TXB3+ TXB3-
TXB2+ TXB2-
TXB1+ TXB1-
TXB0+ TXB0-

B20 TO EPLD

B7 TO SCALER

BU_LHT_ADJ1
3A02 1K0

RESERVED
IA07
4A02 RES
IA05
BACKLIGHT_DIM
B20 FROM EPLD

RES +5VSWI
3A03 RES
3A05 RES
7A01 SI2301DS-T1
3A04 1K0
IA06
3A06 10K
IA00
2A03 1u0
BACKLIGHT_CTRL
B16 TO TOP CONNECTORS
4A03

BACKLIGHT CONTROL				
	5V DC	5V PWM	3V3 DC	3V3 PWM
3A03	390R	390R	-	-
3A05	-	-	-	-
3A04	1K	1K	-	-
7A01	Y	Y	-	-
4A03	-	-	Y	Y
3A06	10K	0R	10K	0R
2A03	1u	-	1u	-

FOR PDP ONLY

+3V3SW
3A07 10K
3A08 10K
2A00 100n
+3V3SW
5A00
7A00 PCA9515ADP
VCC
B21 TO EPLD
SDA_DMA_BUS1_DISP
SCL_DMA_BUS1_DISP
3A00 68R
3A01 68R
IA08
IA09
SDA1
SCL1
SDA0
SCL0
NC
GND
EN
SDA_IO
SCL_IO
4A04 (PDP)
BUF_ENABLE
2A01 100p
2A02 100p
4A00 RES
4A01 RES

FOR UFD ONLY

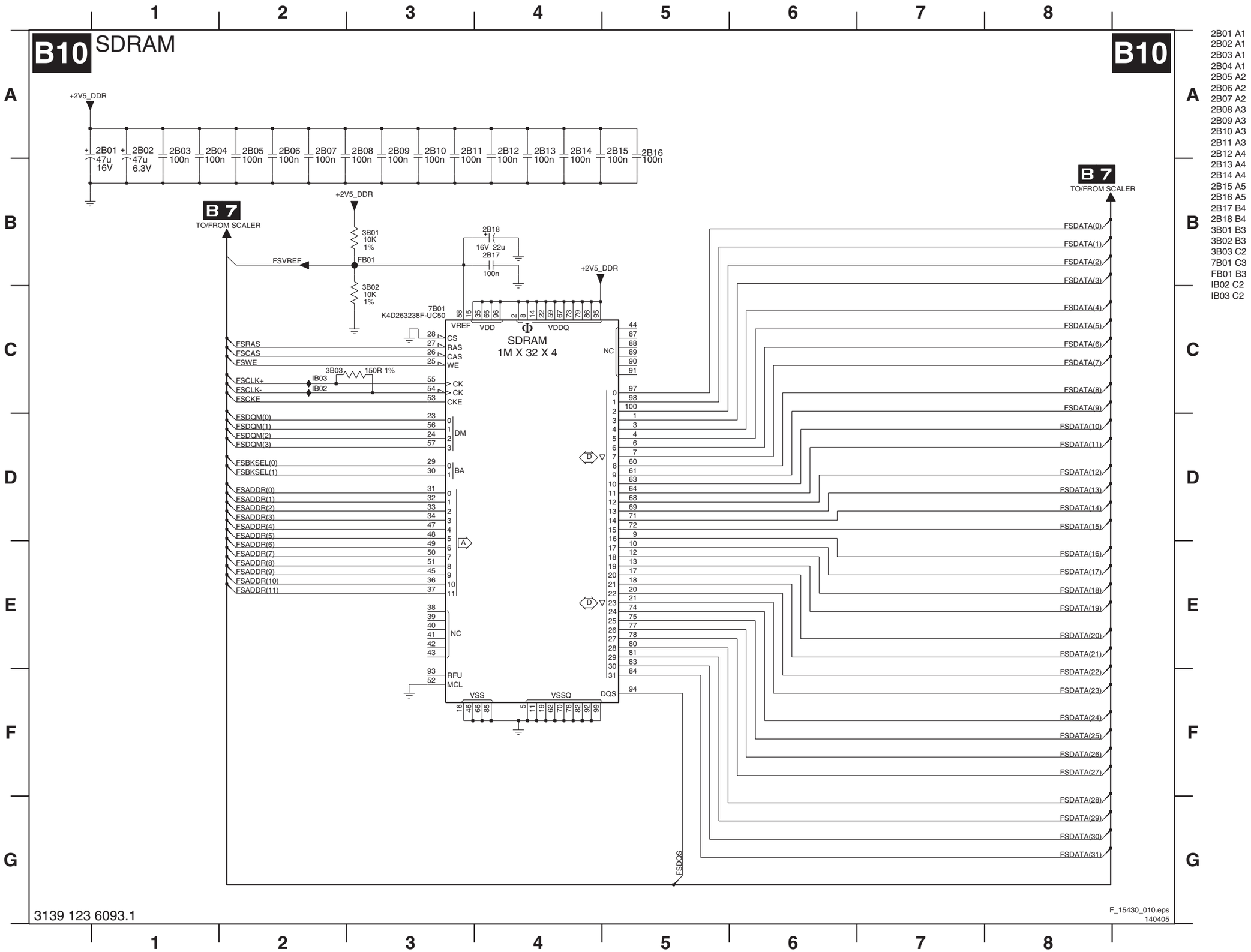
+3V3STBY
2A13 100n
3A13 10K
+3V3STBY
3A11 4K7
+5V
3A14 4K7
7A03 BC847BW
B2 FROM HERCULES
SC_STANDBY
7A02 BC847BW
3A10 10K
IA03
2A12 10n
6A01 BZX384-C3V9
STANDBY
4A05
4A06

2A00 E3
2A01 F2
2A02 F2
2A03 C7
2A12 F6
2A13 E8
3A00 E2
3A01 E2
3A02 C5
3A03 C6
3A04 C6
3A05 C6
3A06 C7
3A07 E2
3A08 E2
3A10 F6
3A11 E7
3A13 E8
3A14 E9
4A00 F3
4A01 F3
4A02 B6
4A03 D6
4A04 F4
4A05 F6
4A06 F8
5A00 E3
6A01 F8
7801-8 A2
7A00 E4
7A01 C6
7A02 F6
7A03 E8
IA00 C7
IA03 F6
IA05 B8
IA06 C7
IA07 B6
IA08 E3
IA09 E3

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SSB: SDRAM



2B01 A1
2B02 A1
2B03 A1
2B04 A1
2B05 A2
2B06 A2
2B07 A2
2B08 A3
2B09 A3
2B10 A3
2B11 A3
2B12 A4
2B13 A4
2B14 A4
2B15 A5
2B16 A5
2B17 B4
2B18 B4
3B01 B3
3B02 B3
3B03 C2
7B01 C3
FB01 B3
IB02 C2
IB03 C2

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SSB: Flash / Control

B11 FLASH / CONTROL

B11

B 7 TO SCALER

+3V3_IO

5C00

FC00

2C00 100n

2C01 10u 16V

7C00 M29W040B-55K1

ROM 512Kx8 [FLASH]

OCMADDR(0) 12
OCMADDR(1) 11
OCMADDR(2) 10
OCMADDR(3) 9
OCMADDR(4) 8
OCMADDR(5) 7
OCMADDR(6) 6
OCMADDR(7) 5
OCMADDR(8) 27
OCMADDR(9) 26
OCMADDR(10) 23
OCMADDR(11) 25
OCMADDR(12) 4
OCMADDR(13) 28
OCMADDR(14) 29
OCMADDR(15) 3
OCMADDR(16) 2
OCMADDR(17) 30
OCMADDR(18) 1

A 0 512K-1

#OCM_RE 24 OE
#OCM_WE 31 WE
#ROM_CS 22 CE

DQ

OCMDATA(0:7)

OCMDATA(0) 13
OCMDATA(1) 14
OCMDATA(2) 15
OCMDATA(3) 17
OCMDATA(4) 18
OCMDATA(5) 19
OCMDATA(6) 20
OCMDATA(7) 21

B 7 TO SCALER

OCMADDR(0:19)

3C06-1 3C06-2 3C06-3 3C06-4 10K
OCMADDR(0) OCMADDR(1) OCMADDR(2) OCMADDR(3)

3C07-1 3C07-2 3C07-3 3C07-4 10K
OCMADDR(4) OCMADDR(5) OCMADDR(6) OCMADDR(7)

3C08-1 3C08-2 3C08-3 3C08-4 10K
OCMADDR(8) OCMADDR(9) OCMADDR(10) OCMADDR(11)

3C09-1 3C09-2 3C09-3 3C09-4 10K
OCMADDR(12) OCMADDR(15) OCMADDR(16) OCMADDR(18)

3C10-1 3C10-2 3C10-3 3C10-4 10K
OCMADDR(17) OCMADDR(14) OCMADDR(13) OCMADDR(19)

+3V3_IO

3C04-1 3C04-2 3C04-3 3C04-4 10K 3C05

3C11 3C12 3C13 3C14 3C15 RES

+3V3_IO

3C16-1 3C16-2 3C16-3 3C16-4 3C17 3C18 10K

FC09 FC10 FC08 FC07 FC06

3C19 3C20 3C21 RES

+3V3SW

3C00 10K

2C02 100n

3V2

7C01 M24C32-WMN6

Φ (4Kx8) EEPROM

NVM_WP_SCALER 0V FC01 7 WC
SCL_IO 3V2 FC02 6 SCL
SDA_IO 3V2 FC03 5 SDA

ADR

+3V3SW

3V2

2C03 100n

1C00 SKQR

For Software Development only - (RES)

FC04

3C01 10K

7C02 PST596J

MR SUB VCC GND VOUT

FC05 3V2

3C02 1K0

3C03 RES

#RESET

B 7 TO SCALER & B 12 TO HDMI & B 19 TO COLUMBUS

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1C00 E4
2C00 A3
2C01 A3
2C02 E2
2C03 E5
3C00 E2
3C01 E5
3C02 E6
3C03 E6
3C04-1 A6
3C04-2 A6
3C04-3 A6
3C04-4 A6
3C05 A6
3C06-1 B5
3C06-2 B5
3C06-3 B5
3C06-4 B5
3C07-1 B5
3C07-2 B5
3C07-3 B5
3C07-4 B5
3C08-1 B5
3C08-2 B5
3C08-3 C5
3C08-4 C5
3C09-1 C5
3C09-2 C5
3C09-3 C5
3C09-4 C5
3C10-1 C5
3C10-2 C5
3C10-3 C5
3C10-4 C5
3C11 A6
3C12 A6
3C13 A6
3C14 B6
3C15 B6
3C16-1 B7
3C16-2 B7
3C16-3 B6
3C16-4 B6
3C17 B6
3C18 B7
3C19 C6
3C20 C7
3C21 C7
5C00 A3
7C00 A2
7C01 E3
7C02 E5
FC00 A3
FC01 E2
FC02 E2
FC03 E2
FC04 E4
FC05 E6
FC06 C6
FC07 C6
FC08 C7
FC09 B7
FC10 B7

SSB: HDMI (N.A.)

2D00 A3	2D06 F4	2D12 A5	2D18 B6	2D24 B7	2D30 B8	2D36 G11	2D44 F14	3D04 C2	3D10 C5	3D15-4 C11	3D17-2 D11	3D18-4 D11	3D21-4 F9	3D27 H13	3D35 H12	5D03 A7	7D04 E11	FD04 D2	FD10 A6	FD16 E13	ID04 F5	ID10 G12	ID16 E13	ID22 F4
2D01 C2	2D07 A5	2D13 B5	2D19 B6	2D25 B7	2D31 B8	2D37 H11	2D45 G14	3D05 C4	3D11 F4	3D16-1 C11	3D17-3 D11	3D19 E12	3D22 G9	3D30 F14	4D00 F13	5D04 A7	7D05 F13	FD05 G2	FD11 A7	FD17 H7	ID05 F5	ID11 G12	ID17 E13		
2D02 C3	2D08 B5	2D14 B5	2D20 A7	2D26 B7	2D32 E11	2D38 G12	3D00 A2	3D06 C4	3D12 F4	3D16-2 C11	3D17-4 D11	3D20 E12	3D23 G9	3D31 F14	4D01 F13	7D00 A2	FD00 B3	FD06 G2	FD12 F9	ID00 C3	ID06 F5	ID12 H12	ID18 F14		
2D03 F4	2D09 B5	2D15 B5	2D21 B6	2D27 A8	2D33 E11	2D39 G12	3D01 A3	3D07 D4	3D13-1 B11	3D16-3 C11	3D18-1 D11	3D21-1 G9	3D24 G11	3D32 G14	5D00 A5	7D01 D3	FD01 C2	FD07 A5	FD13 E11	ID01 D3	ID07 G5	ID13 H12	ID19 G14		
2D04 F4	2D10 B5	2D16 B5	2D22 B6	2D28 B8	2D34 E12	2D40 G12	3D02 A3	3D08 D4	3D15-2 B11	3D16-4 C11	3D18-2 D11	3D21-2 G9	3D25 H11	3D33 G14	5D01 A6	7D02 D4	FD02 C2	FD08 A6	FD14 E12	ID02 D4	ID08 G10	ID14 H12	ID20 F14		
2D05 F4	2D11 B5	2D17 A6	2D23 A7	2D29 B8	2D35 E12	2D41 H13	3D03 C2	3D09 C5	3D15-3 C11	3D17-1 C11	3D18-3 D11	3D21-3 F9	3D26 G12	3D34 H11	5D02 A6	7D03 C5	FD03 C2	FD09 A6	FD15 F10	ID03 D4	ID09 G11	ID15 F13	ID21 G14		

B12 HDMI (NOT APPLICABLE IN EUROPE SET)

B12

B 7 FROM SCALER

SCL_IO
SDA_IO

7D00 M24C02-WMN6 (256x8) EEPROM

B 7 TO SCALER

HDMI_Y(0:7)
HDMI_CbCr(0:7)

B 22 FROM DIGITAL-IO (CINCH ONLY)

DOC_SDA
DOC_SCL
+5VHDMI

B 11 FROM FLASH/CONTROL

7D03 SII9993CTG100 HDMI PANELLINK RECEIVER

PLLIN
COMP

B 13 TO MUX-SYNC INTF

H_HDMI
V_HDMI

7D04 UDA1334BT/N2 AUDIO DAC

B 22 TO DIGITAL-IO (CINCH ONLY)

AV3_LEFT
AV3_HDMI-AUDIO_SEL
AV3_RIGHT

FOR SET W/O HDMI

7D05 HEF4053B MDX

B 2 TO HERCULES

AudioIN2R
AudioIN2L

HDMI_VDV
HDMI_VCLK

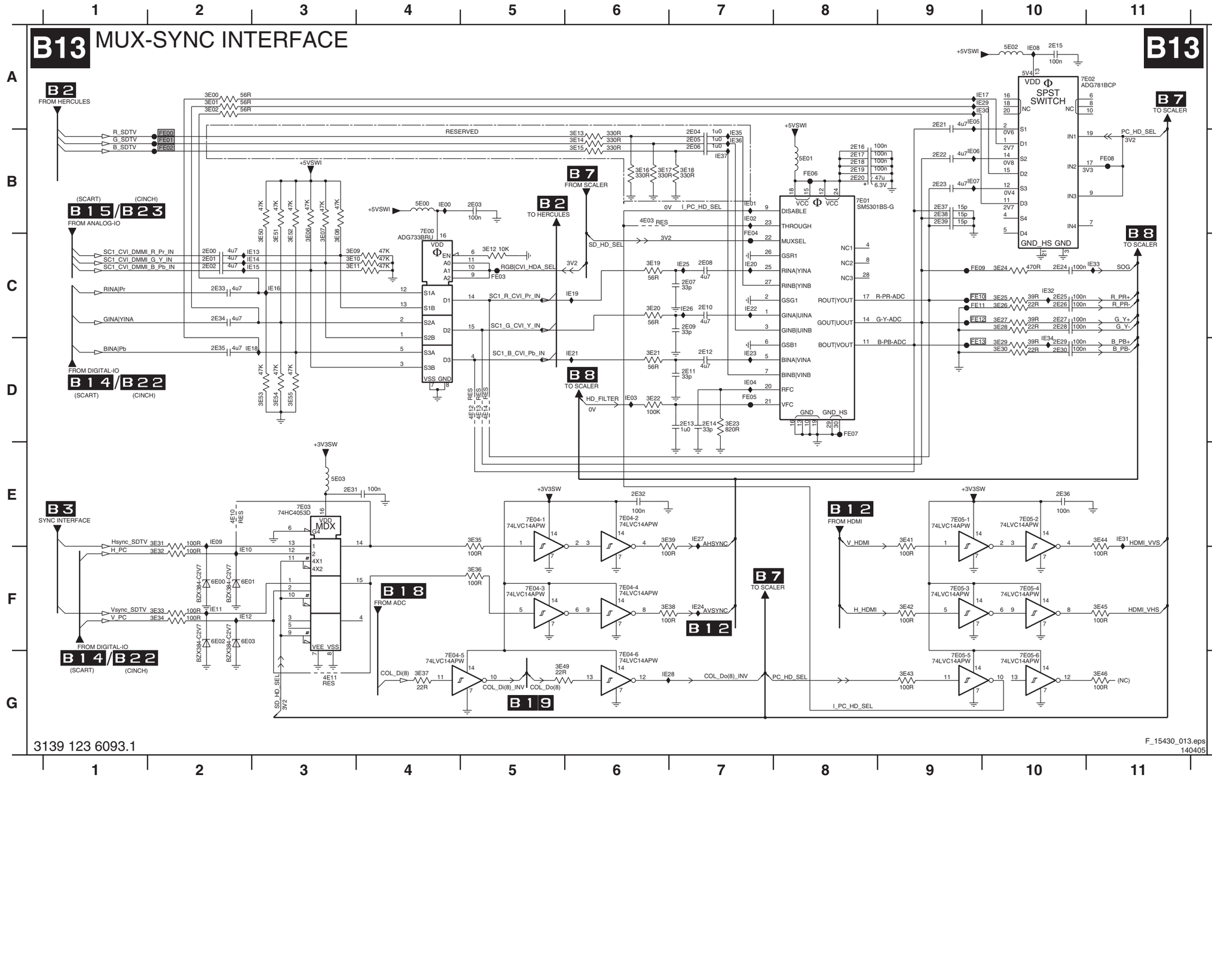
FROM SCALER B 7

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SSB: MUX Sync Interface

B13 MUX-SYNC INTERFACE



2E00 C2	3E50 C3	IE34 D10
2E01 C2	3E51 C3	IE35 B7
2E02 C2	3E52 C3	IE36 B7
2E03 B5	3E53 D3	IE37 B7
2E04 B7	3E54 D3	
2E05 B7	3E55 D3	
2E06 B7	4E03 B6	
2E07 C7	4E10 E2	
2E08 C7	4E11 G3	
2E09 C7	4E12 D5	
2E10 C7	4E13 D5	
2E11 D7	4E14 D5	
2E12 D7	5E00 B4	
2E13 D7	5E01 B8	
2E14 D7	5E02 A10	
2E15 A10	5E03 E3	
2E16 B8	6E00 F2	
2E17 B8	6E01 F2	
2E18 B8	6E02 F2	
2E19 B8	6E03 F2	
2E20 B8	7E00 B4	
2E21 A9	7E01 B8	
2E22 B9	7E02 A10	
2E23 B9	7E03 E3	
2E24 C10	7E04-1 E5	
2E25 C10	7E04-2 E6	
2E26 C10	7E04-3 F5	
2E27 C10	7E04-4 F6	
2E28 C10	7E04-5 G5	
2E29 D10	7E04-6 G6	
2E30 D10	7E05-1 E9	
2E31 E3	7E05-2 E10	
2E32 E6	7E05-3 F9	
2E33 C2	7E05-4 F10	
2E34 C2	7E05-5 G9	
2E35 D2	7E05-6 G10	
2E36 E10	FE00 B2	
2E37 B9	FE01 B2	
2E38 B9	FE02 B2	
2E39 B9	FE03 C5	
3E00 A2	FE04 C7	
3E01 A2	FE05 D7	
3E02 A2	FE06 B8	
3E06 C3	FE07 D8	
3E07 C3	FE08 B11	
3E08 C3	FE09 C9	
3E09 C3	FE10 C9	
3E10 C3	FE11 C9	
3E11 C3	FE12 C9	
3E12 C5	FE13 D9	
3E13 B6	IE00 B4	
3E14 B6	IE01 B7	
3E15 B6	IE02 B7	
3E16 B6	IE03 D6	
3E17 B6	IE04 D7	
3E18 B7	IE05 A9	
3E19 C6	IE06 B9	
3E20 C6	IE07 B9	
3E21 D6	IE08 A10	
3E22 D6	IE09 E2	
3E23 D7	IE10 F2	
3E24 C10	IE11 F2	
3E25 C10	IE12 F2	
3E26 C10	IE13 C3	
3E27 C10	IE14 C3	
3E28 C10	IE15 C3	
3E29 D10	IE16 C3	
3E30 D10	IE17 A10	
3E31 E2	IE18 D2	
3E32 F2	IE19 C6	
3E33 F2	IE20 C7	
3E34 F2	IE21 D6	
3E35 E5	IE22 C7	
3E36 F5	IE23 D7	
3E37 G4	IE24 F7	
3E38 F6	IE25 C7	
3E39 E6	IE26 C7	
3E41 E9	IE27 E7	
3E42 F9	IE28 G6	
3E43 G9	IE29 A10	
3E44 E11	IE30 A10	
3E45 F11	IE31 E11	
3E46 G11	IE32 C10	
3E49 G5	IE33 C11	

SSB: Digital I/O

B14 DIGITAL IO

B13 TO MUX-SYNC INTERFACE

B2 To HERCULES

B8 TO SCALER

B7 TO SCALER

RGB/COMPONENT VIDEO INPUT

1F00-4 YKF45-7005

DVI INPUT

DVI CONNECTOR

ROW_A 1F00-1 YKF45-7005

ROW_B 1F00-2 YKF45-7005

ROW_C 1F00-3 YKF45-7005

7F03 M24C02-WMN6 (256x8) EEPROM

PC AUDIO IN

1F01

YKB21-5101A

S001

S002

BAS316 6F00

BAS316 6F01

+5VSWI

DDC_5V

DVI_5V

HOT_PLUG

RINA|Pr

GINA|YINA

H_PC

BINA|Pb

V_PC

SCL_DVI

SDA_DVI

RX2-IN

RX2+IN

RX1-IN

RX1+IN

RX0-IN

RX0+IN

RXC+IN

RXC-IN

AudioIN2L

AudioIN2R

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1F00-1 D1
1F00-2 E1
1F00-3 F1
1F00-4 B1
1F01 A7
2F00 A2
2F02 B2
2F04 B3
2F05 C2
2F07 C3
2F08 E2
2F09 E2
2F10 E3
2F11 F2
2F12 F2
2F13 B9
2F14 B9
2F15 B9
2F16 B9
3F00 A2
3F09 B2
3F10 B3
3F11 C2
3F16 D4
3F17 D4
3F18 D4
3F19 E2
3F20 F2
3F21 F2
3F22 F3
3F23 F3
3F24 B8
3F25 B8
3F26 B9
3F27 B9
3F28 E2
3F29 E2
5F00 A3
5F01 B3
5F02 C3
5F03 F4
6F00 F4
6F01 F3
7F03 D2
FF00 D1
FF01 E1
FF02 E1
FF03 E1
FF04 E1
FF05 E1
FF06 E1
FF07 F1
FF08 F1
FF09 F1
FF10 F1
FF11 G1
FF12 G1
FF13 G1
IF00 D3
IF01 F2
IF02 F4
IF03 F5
IF04 B8
IF05 B8
IF06 F1
IF07 F1
IF08 G1
IF11 A6
IF12 B1
IF13 B1
IF14 B2
IF15 B2
IF17 B6
IF20 C6
IF21 F5
IF22 B9
IF23 B9
S001 B8
S002 B8

SSB: Analog I/O

B15 SCART ANALOGUE IO

B15

SCART 1

1G01-1
Audio-R_out
Audio-R_in
Audio-L_out
Audio-L_in
RGB-B_in
Function_Sw
RGB-G_in
RGB-R_in
RGB-BL_in
Terr_CVBS_out
Video_in
HR-AR0761S-2
MT 1G01-2 HR-AR0761S-2

SCART 2

1G02-1
Audio-R_out
Audio-R_in
Audio-L_out
Audio-L_in
RGB-B_in
Function_Sw
RGB-G_in
RGB-R/YC-C_in
CVBS_out
Video/YC-Y_in
HR-AR0761S-2
MT 1G02-2 HR-AR0761S-2

TO HERCULES B2

SC1_R B2
SC1_R_RF_OUT B2
SC1_COMP_AV1_R_IN B2
SC1_L B2
SC1_L_RF_OUT B2
SC1_COMP_AV1_L_IN B2
CVI_Pb_IN
CVI_Y_IN
CVI_Pr_IN
IG09 STATUS_1 B2
SC1_CVBS_RF_OUT B2
SC1_CVBS_IN B2
SC2_R B2
SC2_R_MON_OUT B2
SC2_L B2
SC2_L_MON_OUT B2
STATUS_2 B2
SC2_CVBS_MON_OUT B2

RESERVED FOR DMMI

+5VSW 5G01
7G07 74HC4053D
7G09 ADG734BRU
7G10 74HC4053D
SPDT SWITCH
MDX
SC2_L_IN
DMMI_L_IN
AV2_DMMI_SW
DMMI_RGB_SW
SC2_R_IN
DMMI_R_IN
DMMI_CVBS_IN
SC2_Y_IN_1
SC2_L_IN_1
SC2_R_IN_1
SC1_FBL_IN
SC1_FBL_IN_1
DMMI_FBL_IN
DMMI_RGB_SW
CVI_Pr_IN
SC1_CVI_DMMI_R_Pr_IN
DMMI_R_Pr_IN
SC1_CVI_DMMI_G_Y_IN
SC1_CVI_DMMI_B_Pb_IN
CVI_Pb_IN
CVI_Y_IN
DMMI_R_IN
DMMI_L_IN
DMMI_R_Pr_IN
DMMI_FBL_IN
SC2_AV3_C_IN
SC2_AV3_Y_IN
SC2_C_IN
FRONT_C_IN
FRONT_Y_CVBS_IN
SC2_Y_IN
SC2|AV2_SIDE_SW
0V AV2_DMMI_SW
SW_I2C_SDA
SW_I2C_SCL
POWER-DOWN_BOLT-ON
HP_DET_R_DC
SC_STANDBY
ITV_IR_SW_RESET
IR
+3V3STBY
NC

B17 FROM SIDE CONNECTOR
B7 FROM SCALER
B13 TO MUX-SYNC INTF
B2 TO HERCULES

DMMI CONNECTOR 1G03 AF732L-N2G1A

RESERVED FOR DMMI

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1G01-1 A1 1G01-2 E1 1G02-1 F1 1G02-2 J1 1G03 G15 2G01 A3 2G02 A2 2G03 B3 2G04 B3 2G05 A3 2G06 B3 2G07 A4 2G08 A4 2G09 B3 2G10 B3 2G11 B4 2G12 B4 2G16 E4 2G17 E5 2G18 G4 2G19 G4 2G20 G5 2G21 G4 2G22 H4 2G23 H4 2G24 G5 2G25 H4 2G26 I5 2G28 J4 2G29 B11 2G30 B11 2G31 C11 2G32 C11 2G33 C13 2G34 D11 2G35 D11 2G36 F9 2G37 F9 2G38 F12 2G39 E13 2G40 E13 2G41 F13 2G43 I14 2G45 I14 2G46 I14 2G47 J11 2G48 G3 2G49 G3 2G50 H3 2G51 H3 2G52 F2 2G53 K2 2G55 I8 2G56 J8 2G63 B10 2G64 C10 2G65 K9 2G66 I9 3G00 A3 3G01 A3 3G02 A4 3G03 B4 3G04 B3 3G05 B3 3G06 B4 3G07 B4 3G08 J5 3G09 I4 3G12 C3 3G13 C3 3G14 D3 3G15 C3 3G16 C3 3G17 D3 3G26 D2 3G27 D3 3G28 E3 3G29 E3 3G30 E3 3G31 F3 3G32 E4 3G33 F3 3G34 E5 3G37 G3 3G38 G3 3G39 G4 3G40 G4 3G41 G3 3G42 H3 3G43 H4 3G44 H4 3G45 I3 3G46 I3 3G47 I6 3G48 I6 3G51 H3 3G52 H4 3G53 J3 3G54 J4 3G55 I5 3G56 J5 3G57 K3 3G58 J3 3G59 J4 3G60 K4 3G63 B9 3G64 C9 3G65 B11 3G66 C9 3G67 C10 3G68 C10 3G69 B12 3G70 C12 3G71 C14 3G72 D10 3G73 D10 3G74 D10 3G75 E9 3G76 F9 3G77 F10 3G78 F10 3G79 D12 3G80 D13 3G81 D13 3G82 D13 3G83 E12 3G84 F12 3G85 F13 3G86 F13 3G87 F13 3G88 H12 3G89 F12 3G90 H11 3G91 H12 3G92 J9 3G93 K9 3G94 I9 3G95 I9 3G96 I9 3G99 I8 3S00 J9 3S01 G9 3S03 J8 4G00 A3 4G01 B3 4G05 G3 4G06 G3 4G09 B11 4G10 B11 4G11 D12 4G12 D12 4G13 D12 4G14 E9 4G15 F9 4G16 E11 4G17 F11 4G18 J5 4G19 I6 4G20 K5 4G21 I9 4G22 K10 4G26 E4 5G00 E4 5G01 D10 5G02 I11 6G00 F3 6G01 K3 6G02 B13 6G03 B2 6G04 C2 6G05 A2 6G06 B2 6G07 F2 6G08 F2 6G09 G2 6G10 G2 7G03 E4 7G05 J4 7G07 B11 7G08 B13 7G09 E11 7G10 J10 FG00 A2 FG01 A2 FG02 B1 FG03 B2 FG04 B2 FG05 C2 FG06 C2 FG07 C2 FG08 D2 FG09 E2 FG10 D2 FG11 E2 FG12 F2 FG13 F6 FG14 G2 FG15 G2 FG16 G1 FG17 G2 FG18 H2 FG19 H1 FG20 I2 FG21 H2 FG22 J2 FG23 J2 FG24 C1 FG25 C1 FG26 G2 FG27 H2 FG28 H2 FG30 I2 FG32 G14 FG33 G14 FG34 G14 FG35 G14 FG36 G14 FG37 H14 FG38 H14 FG39 H14 FG40 H15 FG41 H14 FG42 H14 FG43 H14 FG44 H14 FG45 H14 FG47 I14 FG48 I14 FG49 I14 FG50 I14 FG51 I14 FG53 I14 FG54 I14 FG56 I14 IG00 A4 IG01 A4 IG02 A5 IG03 B5 IG04 B4 IG05 B4 IG06 C6 IG07 C6 IG08 D6 IG09 D6 IG11 E3 IG12 E4 IG13 E6 IG14 G4 IG15 G4 IG16 G5 IG17 G5 IG18 G4 IG19 H4 IG20 G5 IG21 H5 IG23 H5 IG24 J4 IG25 J5 IG26 J5 IG27 K5 IG28 D10 IG29 E11 IG30 F12 IG40 I4 IG42 I5 IG43 J4 IG46 I11 IG47 K9 IG49 B8 IG50 B11 IG52 C11 IG53 C11 IG54 C11 IG55 C11 IG56 D10 IG57 B13 IG58 B13 IG59 D14 IG60 E11 IG61 F11 IG62 F11 IG63 F11 IG64 E12 IG67 F12 IG69 F12 IG73 I8 IG75 I9 IG76 J8 IG78 J9 IG79 K9 IG80 I10 S011 A2 S012 B2 S013 B2 S014 B2 S015 C2 S016 C2 S017 C3 S018 C2 S019 D2 S020 E2 S021 E2 S022 E2 S023 F2 S024 G3 S025 G3 S026 H3 S027 H2 S028 G2 S029 H2 S030 H2 S031 H2 S032 I2 S033 I2 S034 I2 S035 J2 S036 K2

SSB: Top Connectors

B16 TOP CONNECTORS

FOR UFD ONLY

UFD CONTROL

(1M03) 1J00

IJ01 POR (NC)
IJ02 LAMP_ON_OFF_1
IJ03
IJ04
TEMP_SENSOR (NC)
IJ05 STANDBY_1
IJ06 NC
IJ07 POWER_UP_OK_1

5J05 RES
FAN_SPEED
PROTECT_AUD
3J06 RES
POWER_UP_OK
IJ12

4J02 RES
2J16 RES
2J33 RES
2J20 RES
2J34 RES

B6 FROM SCALER INTERFACE
B8 FROM SCALER
B7 FROM SCALER

PROTECT_AUD

B5 FROM AUDIO

AUDIO-L
AUDIO-R
5J01
5J02
FJ10
FJ11
FJ12
AUDIO-SW (NC)
3V3 SOUND_ENABLE_1
3V3 POR_AUDIO
FJ13
FJ14

2J26 100p
2J27 100p
2J28 100p
2J29 100p
2J36 1n0

(1M52) 1J04
B9B-PH-K-S(LF)

TO/FROM 1002 OF CLASS-D AUDIO AMPLIFIER C

UFD SUPPLY

(1M46) 1J01

FJ00
FJ01 (NC)
FJ02
5V(NC)
FJ03
FJ04
+33V_TUN(NC)
FJ05 NC

1J07 +12V_UFD
3A T
1J08 +5V_UFD
4J01

5J04
+5V

2J31 1n0

B6 TO DC-DC CONVERTER

B20 FROM EPLD

B_LT_PWM
G_LT_PWM
R_LT_PWM
B_RT_PWM
G_RT_PWM
R_RT_PWM

FJ15
FJ16
FJ17
FJ18
FJ19
FJ20

1J05
B7B-PH-K-S(LF)

AMBIENT LIGHT (TOP)

2J04 100p
2J05 100p
2J06 100p
2J07 100p
2J08 100p
2J09 100p

TO/FROM PSU (SUPPLY FOR LCD)

1J02
VP
GND_AUDIO
FJ06
FJ07
IJ08
IJ09
IJ10
IJ11
B12P-PH-K-S(LF)

3V2 +3V3STBY
5J03 POWER_DOWN
+12VUNREG
1J1V6

3J05 68R STANDBY 3V1
3J03 68R BACKLIGHT_CTRL
3J04 68R LAMP_ON_OFF 3V2
IJ13

B9 FROM SCALER INTERFACE
B8 FROM SCALER

2J30 1n0
2J02 1n0
2J35 1n0
2J18 100p
2J19 100p
2J17 100p
2J22 100p
2J23 100p
2J21 100p

B_LB_PWM
G_LB_PWM
R_LB_PWM
B_RB_PWM
G_RB_PWM
R_RB_PWM

FJ21
FJ22
FJ23
FJ24
FJ25
FJ26

1J06
B7B-PH-K-S(LF)

AMBIENT LIGHT (BOTTOM)

2J10 100p
2J11 100p
2J12 100p
2J13 100p
2J14 100p
2J15 100p

RESERVED

C TO/FROM 1003 OF CLASS-D AUDIO AMP (+18V / +24V)

1J03
B3B-PH-K-S(LF)
FJ08 VP
FJ09
GND_AUDIO

2J03 1n0
GND_AUDIO

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1J00 B1	FJ25 E7	2J31 D2
1J01 C1	FJ26 E7	2J33 C2
1J02 D1	IJ01 B1	2J34 C3
1J03 F1	IJ02 B1	2J35 F2
1J04 B8	IJ03 B1	2J36 C7
1J05 C8	IJ04 B1	3J03 E3
1J06 E8	IJ05 B1	3J04 E3
1J07 C2	IJ06 B1	3J05 E3
1J08 C2	IJ07 B1	3J06 B3
2J02 F2	IJ08 E2	4J01 D2
2J03 F2	IJ09 E2	4J02 C2
2J04 D6	IJ10 E2	5J01 B7
2J05 D7	IJ11 E2	5J02 B7
2J06 D7	IJ12 B4	5J03 E2
2J07 D7	IJ13 E4	5J04 C2
2J08 D7		5J05 B3
2J09 D7		FJ00 C1
2J10 E6		FJ01 C1
2J11 E7		FJ02 C1
2J12 E7		FJ03 C1
2J13 E7		FJ04 C1
2J14 E7		FJ05 D1
2J15 E7		FJ06 E2
2J16 C2		FJ07 E2
2J17 F3		FJ08 F1
2J18 F2		FJ09 F2
2J19 F3		FJ10 B7
2J20 C3		FJ11 B8
2J21 F3		FJ12 B7
2J22 F3		FJ13 B7
2J23 F3		FJ14 C7
2J26 C6		FJ15 C7
2J27 C7		FJ16 C7
2J28 C7		FJ17 D7
2J29 C7		FJ18 D7
2J30 F2		FJ19 D7

SSB: Side Connectors

B17 SIDE CONNECTORS

FOR DISC/ ARCH CABINET
RESERVED
1K03
+3V3STBY_1
PC-TV-LED_1
LED_SEL_1
4K06 _ +3V3STBY_1
4K07 _RES
+5VSW_1
LIGHT_SENSOR_1
IR_1
KEYBOARD
ITV_IR_SW_RESET
B2
B3 B6
+3V3STBY
LED_SEL
PC-TV-LED
IR
LIGHT_SENSOR
4K01 RES
4K03 _RES
4K04
4K05
3K11 68R
5K00 1u0
5K02 1u0
3K12 68R
3K13 68R
IK16
IK00 PC-TV-LED_1
IK01 LED_SEL_1
IK02 IR_1
IK03 LIGHT_SENSOR_1
2K01 1n0
2K00 1n0
100p
2K21 2K22 2K23 2K24 2K25 2K26 2K27 2K28
J
TO/FROM 1540 OF IR/ LED
1K00 (1M21)
B6B-PH-K
FK11
B15/B23
3K00 100R
2K02 10p
2K03 10p
FRONT_Y_CVBS_IN
3K01 100R
2K04 10p
2K05 10p
FRONT_C_IN
B2
3K02 10K
IK17
2K08 2u2
2K06 100p
2K07 100p
3K03 15K
FRONT_L_IN
B5
5K01 1u0
+5VSW
2K19 1n0
2K20 1n0
3K05 10K
IK18
2K12 2u2
2K10 100p
2K11 100p
3K06 15K
FRONT_R_IN
KEYBOARD
* 3K07 39R
2K13 100p
2K14 100p
HP_LOUT
3K08 68R
2K15 100p
HP_DET_R_DC
* 3K09 39R
2K16 100p
2K17 100p
HP_ROUT
4K02 RES
*	UFD
2K13	10p
2K14	10p
2K16	10p
2K17	10p
3K07	10R
3K09	10R
RES 1K04
TO/FROM 1304 OF SIDE I/O
1K01 (1M06)
D
FK00 FRONT_Y_CVBS_IN_1
FK01 FRONT_C_IN_1
FK02 FRONT_L_IN_1
FK03 +5VSW_1 3V3
FK04 FRONT_R_IN_1
FK10
FK05 HP_LOUT_1
FK06 HP_DET_R_DC_1 3V3
FK07 HP_ROUT_1
E
TOP/SIDE KEYBOARD
1K02 (1M01)
FK08
FK09
2K18 100p
B3B-PH-K-S(LF)

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1K00 A8
1K01 D1
1K02 E8
1K03 A1
1K04 D1
2K00 B7
2K01 B6
2K02 C3
2K03 C3
2K04 D3
2K05 D3
2K06 D3
2K07 D3
2K08 D4
2K10 E3
2K11 E3
2K12 E4
2K13 F3
2K14 E3
2K15 F3
2K16 F3
2K17 F3
2K18 E8
2K19 E3
2K20 E3
2K21 B6
2K22 B6
2K23 B6
2K24 B6
2K25 B7
2K26 B7
2K27 B7
2K28 B7
3K00 C3
3K01 C3
3K02 D3
3K03 D3
3K05 E3
3K06 E3
3K07 E3
3K08 F3
3K09 F3
3K11 A7
3K12 A7
3K13 B7
4K01 A7
4K02 F2
4K03 A7
4K04 A7
4K05 A7
4K06 B1
4K07 B1
5K00 A7
5K01 D3
5K02 A7
FK00 E1
FK01 E1
FK02 E1
FK03 E1
FK04 E1
FK05 E1
FK06 E1
FK07 E1
FK08 E8
FK09 E8
FK10 E1
FK11 B8
IK00 A8
IK01 A8
IK02 A8
IK03 B8
IK16 A7
IK17 D3
IK18 E3

SSB: ADC

B18 ADC

B2 TO HERCULES

B3 FROM SYNC INTERFACE

B2 FROM HERCULES

B13

B19 TO COLUMBUS

B7 TO SCALER

B3 SYNC INTF

ANALOG INTERFACE FOR FLAT PANEL DISPLAY

7L05 LD1117DT33

7L04 ~~AD9985KSTZ~~ 9883(MSTAR)

7L01 BC847BW

7L02 BC847BW

7L03 BC847BW

7L06 BSN20

7L07 BSN20

+5VSWIA +3V3SWB +3V3 IL16 IL17 IL18 IL19 IL04 IL05 IL06 IL07 IL08 IL09 IL10 IL11 IL12 IL13 IL14 IL15 IL01 IL02 IL03

INTF_V_OUT INTF_Y_OUT INTF_U_OUT CVBS_COMB

Hsync_SDTV Vsync_SDTV

SDA SCL A0

RAIN GAIN BAIN HSYNC VSYNC SOGIN CLAMP COAST REF_BYPASS MIDSCV FILT SDA SCL A0 GND

CLAMP_ADC

VD VDD PVD

RED GREEN BLUE DATACK HSOUT VSOUT SOGOUT

COL_Di(1:7) COL_Di(8) COL_YA(1:8) COL_CLKASA COL_HREF COL_VA

2L02 A7 3L37 E3
2L03 A7 3L38 C3
2L04 A7 3L39 C4
2L05 A8 4L00 D3
2L06 A8 4L01 D3
2L07 B7 4L02 C1
2L08 B7 4L03 C1
2L09 B7 4L04 C3
2L10 B8 4L05 C4
2L11 B8 5L00 B4
2L13 C4 5L01 A5
2L15 D4 5L02 A6
2L17 E3 5L03 C3
2L18 E4 5L04 C3
2L19 E4 7L01 B3
2L20 D4 7L02 C2
2L21 D4 7L03 E2
2L22 B5 7L04 C5
2L23 B5 7L05 A2
2L24 B5 7L06 F2
2L26 C4 7L07 F3
2L27 A8 7L08 C3
2L28 B9 IL01 C5
2L29 B4 IL02 C5
2L30 A3 IL03 C5
2L31 E4 IL04 B1
2L32 E5 IL05 C1
2L33 B8 IL06 E1
2L34 B8 IL07 C4
2L35 B2 IL08 C4
2L36 E1 IL09 E3
2L37 C3 IL10 C7
2L38 C3 IL11 C7
2L39 C3 IL12 C7
3L00 B2 IL13 D7
3L01 B2 IL14 D7
3L03 B2 IL15 D7
3L04 B3 IL16 A3
3L05 B3 IL17 B4
3L06 C1 IL18 A5
3L07 C2 IL19 B6
3L08 C3
3L09 C2
3L10 C2
3L11 C2
3L12 E1
3L13 D2
3L15 E2
3L16 E2
3L17 E3
3L18 E4
3L19 F3
3L20 F3
3L21 C4
3L22 D4
3L23 D4
3L24 D4
3L25-1 C7
3L25-2 C7
3L25-3 C7
3L25-4 C7
3L26-1 C7
3L26-2 C7
3L26-3 C7
3L27-1 D7
3L27-2 D7
3L27-3 D7
3L27-4 D7
3L28-1 D7
3L28-2 D7
3L28-3 D7
3L28-4 D7
3L30 E7
3L31 E7
3L32 E7
3L33 B3
3L34 C4
3L35 E3
3L36 E2

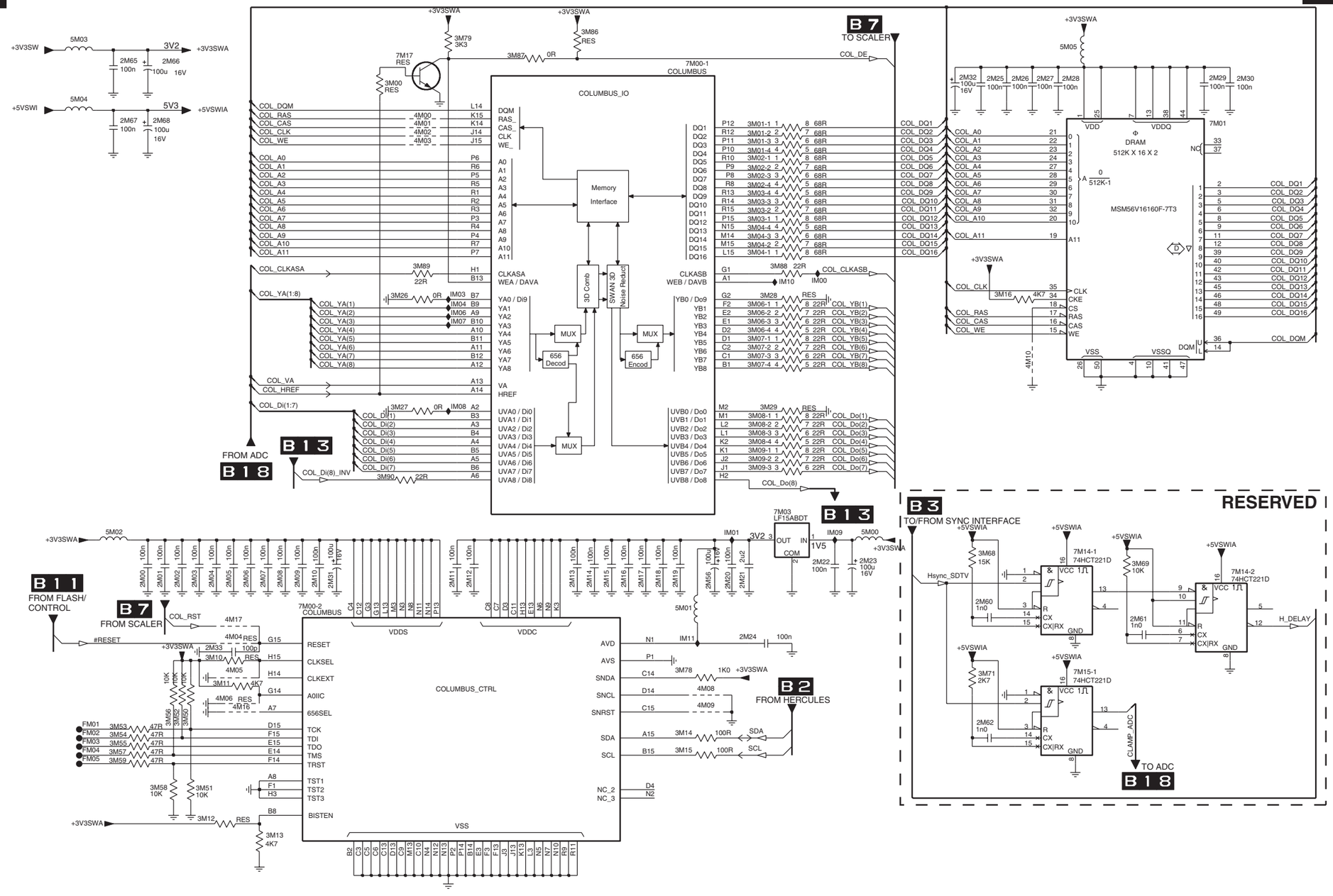
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SSB: Columbus

B19 COLUMBUS

B19



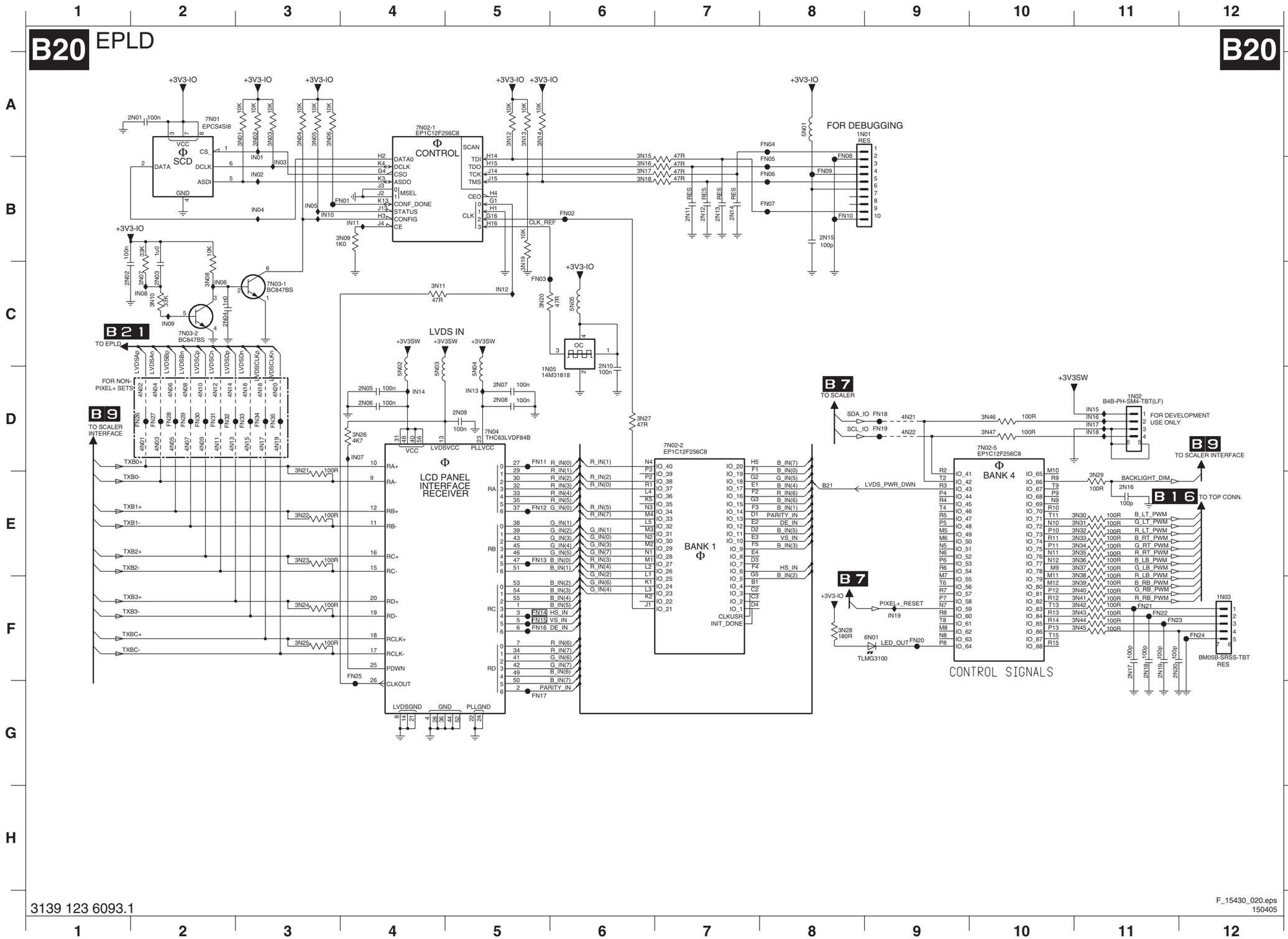
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2M00 E2	3M87 A5
2M01 E2	3M88 C8
2M02 E3	3M89 C5
2M03 E3	3M90 E4
2M04 E3	4M00 B5
2M05 E3	4M01 B5
2M06 E3	4M02 B5
2M07 E3	4M03 B5
2M08 E3	4M04 F3
2M09 E4	4M05 F3
2M10 E4	4M06 F3
2M11 E5	4M08 F7
2M12 E5	4M09 F7
2M13 E6	4M10 D10
2M14 E6	4M16 F3
2M15 E6	4M17 F3
2M16 E6	5M00 E8
2M17 E6	5M01 F7
2M18 E7	5M02 E2
2M19 E7	5M03 A2
2M20 E7	5M04 A2
2M21 E7	5M05 A10
2M22 E8	7M00-1 A7
2M23 E8	7M00-2 F4
2M24 F7	7M01 B11
2M25 A9	7M03 E8
2M26 A10	7M14-1 E10
2M27 A10	7M14-2 E11
2M28 A10	7M15-1 F10
2M29 A11	7M17 A4
2M30 A11	FM01 G2
2M31 E4	FM02 G2
2M32 A9	FM03 G2
2M33 F3	FM04 G2
2M56 E7	FM05 G2
2M60 F9	IM00 C8
2M61 F11	IM01 E7
2M62 G9	IM03 C5
2M65 A2	IM04 C5
2M66 A2	IM06 C5
2M67 B2	IM07 C5
2M68 B2	IM08 D5
3M00 A4	IM09 E8
3M01-1 B7	IM10 C8
3M01-2 B7	IM11 F7
3M01-3 B7	
3M01-4 B7	
3M02-1 B7	
3M02-2 B7	
3M02-3 B7	
3M02-4 B7	
3M03-1 B7	
3M03-2 B7	
3M03-3 B7	
3M03-4 B7	
3M04-1 C7	
3M04-2 C7	
3M04-3 C7	
3M04-4 C7	
3M06-1 C7	
3M06-2 C7	
3M06-3 C7	
3M06-4 C7	
3M07-1 C7	
3M07-2 D7	
3M07-3 D7	
3M07-4 D7	
3M08-1 D7	
3M08-2 D7	
3M08-3 D7	
3M08-4 D7	
3M09-1 D7	
3M09-2 D7	
3M09-3 E7	
3M10 F3	
3M11 F3	
3M12 G3	
3M13 H3	
3M14 G7	
3M15 G7	
3M16 C9	
3M26 C4	
3M27 D4	
3M28 C7	
3M29 D7	
3M50 G3	
3M51 G3	
3M52 G3	
3M53 G2	
3M54 G2	
3M55 G2	
3M56 G2	
3M57 G2	
3M58 G2	
3M59 G2	
3M68 E9	
3M69 E11	
3M71 F9	
3M78 F7	
3M79 A5	
3M86 A6	

SSB: EPLD

B20 EPLD



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1N01 A9	7N02-2 D7
1N02 D11	7N02-5 D10
1N03 F12	7N03-1 C3
1N05 D5	7N03-2 C2
2N01 A2	7N04 D5
2N02 C1	FN01 B4
2N03 C2	FN02 B6
2N04 C2	FN03 C5
2N05 D4	FN04 A8
2N06 D4	FN05 B8
2N07 D5	FN06 B8
2N08 D5	FN07 B8
2N09 D5	FN08 B8
2N10 D6	FN09 B8
2N11 B7	FN10 B8
2N12 B7	FN11 D5
2N13 B7	FN12 E5
2N14 B7	FN13 E5
2N15 B8	FN14 F5
2N16 E11	FN15 F5
2N17 F11	FN16 F5
2N18 F11	FN17 G5
2N19 F11	FN18 D9
2N20 F11	FN19 D9
3N01 A3	FN20 F9
3N02 A3	FN21 F11
3N03 A3	FN22 F11
3N04 A3	FN23 F11
3N05 A3	FN24 F12
3N06 A3	FN25 F4
3N07 C2	FN26 D2
3N08 C2	FN27 D2
3N09 B4	FN28 D2
3N10 C2	FN29 D2
3N11 C4	FN30 D2
3N12 A5	FN31 D2
3N13 A5	FN32 D2
3N14 A5	FN33 D3
3N15 B6	FN34 D3
3N16 B6	FN35 D3
3N17 B6	IN01 B3
3N18 B6	IN02 B3
3N19 C5	IN03 B3
3N20 C5	IN04 B3
3N21 E3	IN05 B3
3N22 E3	IN06 C2
3N23 E3	IN07 D4
3N24 F3	IN08 C2
3N25 F3	IN09 C2
3N26 D4	IN10 B3
3N27 D6	IN11 B4
3N28 F8	IN12 C5
3N29 E11	IN13 D5
3N30 E11	IN14 D4
3N31 E11	IN15 D11
3N32 E11	IN16 D11
3N33 E11	IN17 D11
3N34 E11	IN18 D11
3N35 E11	IN19 F9
3N36 E11	
3N37 E11	
3N38 F11	
3N39 F11	
3N40 F11	
3N41 F11	
3N42 F11	
3N43 F11	
3N44 F11	
3N45 F11	
3N46 D10	
3N47 D10	
4N01 D2	
4N02 D2	
4N03 D2	
4N04 D2	
4N05 D2	
4N06 D2	
4N07 D2	
4N08 D2	
4N09 D2	
4N10 D2	
4N11 D2	
4N12 D2	
4N13 D2	
4N14 D2	
4N15 D3	
4N16 D3	
4N17 D3	
4N18 D3	
4N19 D3	
4N20 D3	
4N21 D9	
4N22 D9	
5N01 A8	
5N02 D4	
5N03 D4	
5N04 D5	
5N05 C6	
6N01 F9	
7N01 A2	
7N02-1 A4	

SSB: EPLD

B21 EPLD

B21

+3V3SW
FP01
5P01
FP02
+3V3-IO
2u2 100n ... 2P01 2P02 2P03 2P04 2P05 2P06 2P07 2P08 2P09 2P10 2P11 2P12 2P13 2P14
7P01 LF15ABDT
IN OUT COM
2P15 100u 16V
2P16 100n
2P17 2u2
FP03
+1V5
5P02
FP04
+1V5-PLL
2P18 2P19 2P20 2P21
5P03
FP05
+1V5-INT
2P22 2P23 2P24 2P25 2P26 2P27 2P28 2P29 2P30

EAGLE INTERFACE
7N02-3 EP1C12F256C8
BANK 2
N.C. N.C.

7N02-6 EP1C12F256C8
POWER
+3V3-IO
+1V5-INT
+1V5-PLL
BANK1 BANK2 BANK3 BANK4 VCCIO VCCINT PLL1 PLL2 VCCA GND GNDA GNDG

FOR MFD ONLY
1P06
LVDS_VCC
LVDS_OPT
NC
TO LCD PANEL (TIMING CONTROL)
0-1453230-3

*	26"/32" 16X9	23" 15X9
4P01	-	-
4P02	YES	-

LVDS TRANSMITTER
+3V3SW
2P31 2P32 2P33 100n
5P04 5P05 5P06
2P34 100n
2P35 100n
7P02 THC63LVDM83R
B20
FROM EPLD
+3V3-IO
3P01 4K7
3P03 47R
VCC LVDS VCC PLL VCC
RS PDWN R|F CLKIN
TCLK TA TB TC TD
GND LVDS GND PLL GND

B9
FROM SCALER INTERFACE
FOR UFD ONLY
SDA_DMA_BUS1_DISP
SCL_DMA_BUS1_DISP
+3V3SW
4P09 RES
3P05 100R
3P04 100R
4P10 RES
LVDSD+ LVDSD- LVDSCLK+ LVDSCLK- LVDSC+ LVDSC- LVDSB+ LVDSB- LVDSA+ LVDSA-
(1G50) 1P07
FP15 FP16 FP17
4P03 4P04 4P05 4P06 4P07 4P08
4P01 4P02
LVDS_OPT
CTRL_DISP2
CTRL_DISP1
(NC) VDISP_2
(NC) VDISP2
FI-WE31P-HFE-E1500
LVDS_VCC
FROM DC-DC CONVERTER
B6
FOR LCD ONLY

LVDS OUT

7N02-4 EP1C12F256C8
BANK 3

PARITY_OUT HS_OUT VS_OUT DE_OUT B(5) B(4) B(6) B(3) B(2) G(4) G(5) B(1) B(7) B(0) CLK_OUT G(7)
B20 (H=NORMAL) LVDS_PWR_DWN
CLK_OUT
R(0) R(1) R(2) R(3) R(4) R(5) G(0) G(1) G(2) G(3) G(4) G(5) B(0) B(1) B(2) B(3) B(4) B(5) B(6) B(7)
HS_OUT VS_OUT DE_OUT
R(6) R(7) G(6) G(7) B(6) B(7) PARITY_OUT
FP06 FP07 FP08 FP09 FP10 FP11 FP12 FP13 FP14

LVDSCLKp LVDSCLKn LVDSAp LVDSAn LVDSBp LVDSBn LVDSCp LVDSCn LVDSDp LVDSDn
DLW21S 1P01 1P02 1P03 1P04 1P05
2P36 2P37 2P38 2P39 2P40 2P41 2P42 2P43 2P44 2P45 10p

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1P01 E
1P02 E
1P03 F
1P04 F
1P05 C
1P06 A
1P07 D
2P01 E
2P02 E
2P03 E
2P04 E
2P05 E
2P06 E
2P07 E
2P08 E
2P09 E
2P10 E
2P11 E
2P12 E
2P13 E
2P14 E
2P15 E
2P16 E
2P17 E
2P18 E
2P19 E
2P20 E
2P21 E
2P22 C
2P23 C
2P24 C
2P25 C
2P26 C
2P27 C
2P28 C
2P29 C
2P30 C
2P31 C
2P32 D
2P33 D
2P34 D
2P35 D
2P36 D
2P37 E
2P38 E
2P39 E
2P40 F
2P41 F
2P42 F
2P43 F
2P44 C
2P45 C
3P01 D
3P03 E
3P04 D
3P05 D
4P01 F
4P02 F
4P03 F
4P04 F
4P05 F
4P06 F
4P07 F
4P08 F
4P09 D
4P10 E
5P01 A
5P02 E
5P03 C
5P04 D
5P05 D
5P06 D
7N02-3
7N02-4
7N02-6
7P01 E
7P02 D
FP01 A
FP02 A
FP03 E
FP04 E
FP05 C
FP06 D
FP07 E
FP08 E

SSB: Diversity Tables B9-B21

B9 MUX-SYNC INTERFACE

Item	LC4.3x	LC4.8x	LC4.9x	Description
2A00			V	CER2 0603 X7R 16V 100N COL
2A01			V	CER1 0402 NP0 50V 100P COL
2A02			V	CER1 0402 NP0 50V 100P COL
2A03		V		CER2 0603 Y5V 10V 1U COL
2A12		V	V	CER2 0402 X7R 16V 10N COL
2A13		V	V	CER2 0402 Y5V 16V 100N COL
3A00			V	RST SM 0402 68R PM5 COL
3A01			V	RST SM 0402 68R PM5 COL
3A02	V	V		RST SM 0402 1K PM5 COL
3A06		V		RST SM 0603 10K PM5COL
3A06	V			RST SM 0603 JUMP. 0R05 COL
3A07			V	RST SM 0402 10K PM5 COL
3A07				RST SM 0402 68R PM5 COL
3A08			V	RST SM 0402 10K PM5 COL
3A10		V	V	RST SM 0402 10K PM5 COL
3A11		V	V	RST SM 0402 10K PM5 COL
3A13		V	V	RST SM 0402 10K PM5 COL
3A14		V	V	RST SM 0402 560R PM5 COL
4A03	V	V		RST SM 0603 JUMP. 0R05 COL
4A04			V	RST SM 0402 JUMP. 0R05 COL
4A05	V			RST SM 0402 JUMP. 0R05 COL
4A06	V			RST SM 0402 JUMP. 0R05 COL
5A00			V	FXDIND 0805 100MHZ 30R COL R
6A01		V	V	DIO REG SM BZX384-C3V9 COL R
7A00			V	IC SM PCA9515ADP (PHSE) R
7A02		V	V	TRA SIG SM BC847BW (COL) R
7A03		V	V	TRA SIG SM BC847BW (COL) R

B13 MUX-SYNC INTERFACE

ITEM	AP/EU/AP-DVB (with Teletext)	EU-DVB (with Teletext)	NAFTA/LT & China (non-Teletext)	DESCRIPTION
2E00	V		V	CER2 0603 X5R 6V3 4U7 PM10 R
2E01	V		V	CER2 0603 X5R 6V3 4U7 PM10 R
2E02	V		V	CER2 0603 X5R 6V3 4U7 PM10 R
2E04	V	V		CER2 0402 X5R 6V3 1U PM20 R
2E05	V	V		CER2 0402 X5R 6V3 1U PM20 R
2E06	V	V		CER2 0402 X5R 6V3 1U PM20 R
3E06	V		V	RST SM 0402 47K PM5 COL
3E07	V		V	RST SM 0402 47K PM5 COL
3E08	V		V	RST SM 0402 47K PM5 COL
3E13	V	V		RST SM 0402 330R PM5 COL
3E14	V	V		RST SM 0402 330R PM5 COL
3E15	V	V		RST SM 0402 330R PM5 COL
3E16	V	V		RST SM 0402 330R PM5 COL
3E17	V	V		RST SM 0402 330R PM5 COL
3E18	V	V		RST SM 0402 330R PM5 COL

B15 ANALOG I/O SCART

Item	26/32PF	DVB.T 26/32PF	37/42PF	DVB.T 37/42PF	Description
1G01	V	V			SOC EURO H 21P F BK R-GRND B
1G01			V	V	SOC EURO H 21P F SHD R-GRND Y
1G02	V	V			SOC EURO H 21P F BK R-GRND B
1G02			V	V	SOC EURO H 21P F SHD R-GRND Y
1G03		V		V	CON H 32P F 0.50 SM FPC 0.3 R
2G29		V		V	ELCAP SM 16V 10U PM20 COL R
2G30		V		V	CER2 0603 X7R 16V 100N COL
2G31		V		V	CER2 0603 X7R 16V 100N COL
2G32				V	CER2 0603 Y5V 25V 100N COL
2G33		V		V	CER2 0603 Y5V 16V 220N COL
2G34		V		V	ELCAP SM 16V 10U PM20 COL R
2G35		V		V	CER2 0603 Y5V 25V 100N COL
2G36		V		V	CER2 0603 Y5V 10V 1U COL
2G37		V		V	RST SM 0603 330R PM5 COL
2G38		V		V	CER2 0603 Y5V 10V 1U COL
2G39		V		V	CER2 0603 Y5V 10V 1U COL
2G40		V		V	RST SM 0603 JUMP. 0R05 COL
2G41		V		V	RST SM 0603 330R PM5 COL
2G43		V		V	CER2 0603 X7R 50V 1N COL
2G45		V		V	CER2 0603 X7R 50V 1N COL
2G46		V		V	CER2 0603 X7R 50V 1N COL
2G63		V		V	CER2 0603 X5R 6V3 2U2 PM10 R
2G64		V		V	CER2 0603 X5R 6V3 2U2 PM10 R
2G65		V		V	CER2 0603 X5R 6V3 4U7 PM10 R
2G65		V		V	CER2 0603 X5R 6V3 4U7 PM10 R
2G66		V		V	CER2 0603 X5R 6V3 4U7 PM10 R
2G66		V		V	CER2 0603 X5R 6V3 4U7 PM10 R
3G63		V		V	RST SM 0603 10K PM5COL
3G64		V		V	RST SM 0603 10K PM5COL
3G65		V		V	RST SM 0603 10K PM5COL
3G66				V	RST SM 0603 150R PM5 COL
3G67		V		V	RST SM 0603 15K PM5 COL
3G68		V		V	RST SM 0603 15K PM5 COL
3G69		V		V	RST SM 0603 47K PM5 COL
3G70		V		V	RST SM 0603 47K PM5 COL
3G71		V		V	RST SM 0603 560R PM5 COL
3G72		V		V	RST SM 0603 10K PM5COL
3G73		V		V	RST SM 0603 47K PM5 COL
3G75		V		V	RST SM 0603 100R PM5 COL
3G76		V		V	RST SM 0603 100R PM5 COL
3G77		V		V	RST SM 0603 47K PM5 COL
3G79		V		V	RST SM 0603 47K PM5 COL
3G81		V		V	RST SM 0603 47K PM5 COL
3G83		V		V	RST SM 0603 100R PM5 COL
3G84		V		V	RST SM 0603 100R PM5 COL
3G86		V		V	RST SM 0603 47K PM5 COL
3G88		V		V	RST SM 0603 75R PM5 COL
3G89		V		V	RST SM 0603 47K PM5 COL
3G92		V		V	RST SM 0603 47K PM5 COL
3G93		V		V	RST SM 0603 47K PM5 COL
3G94		V		V	RST SM 0603 47K PM5 COL
3G95		V		V	RST SM 0603 47K PM5 COL
4G09		V		V	RST SM 0603 JUMP. 0R05 COL
4G11	V		V		RST SM 0603 JUMP. 0R05 COL
4G12	V		V		RST SM 0603 JUMP. 0R05 COL
4G13	V		V		RST SM 0603 JUMP. 0R05 COL
4G14	V		V		RST SM 0603 JUMP. 0R05 COL
4G15	V		V		RST SM 0603 JUMP. 0R05 COL
4G16	V		V		RST SM 0603 JUMP. 0R05 COL
4G17	V		V		RST SM 0603 JUMP. 0R05 COL
4G18	V		V		RST SM 0603 JUMP. 0R05 COL
4G19	V		V		RST SM 0603 JUMP. 0R05 COL
4G22		V		V	RST SM 0603 JUMP. 0R05 COL
5G01		V		V	FXDIND 0603 100MHZ 120R COL R
6G02		V		V	DIO SIG SM BAS316 (COL) R
7G07		V		V	IC SM 74HC4053D (PHSE) R
7G08		V		V	TRA SIG SM BC847B (COL) R
7G09		V		V	IC SM ADG734BRUZ (ANA0) R

B16 SIDE CONNECTORS

Item	LC4.3x - CINCH	LC4.3E - SCART	LC4.9x - PDP	LC4.8x - LCD	Description
1J00			V	V	CON V 10P M 2.00 PH B
1J01			V	V	CON V 11P M 2.00 PH B
1J02	V	V			CON V 12P M 2.00 PH B
1J03	V	V			CON V 3P M 2.00 PH B
1J07			V	V	FUSE SM T 3A 125V UL R
1J08			V	V	FUSE SM F 630MA 50V UL R
2J31			V	V	CER1 0402 NP0 50V 100P COL
3J03	V	V		V	RST SM 0402 68R PM5 COL
3J04	V	V		V	RST SM 0402 68R PM5 COL
4J01			V	V	RST SM 0402 JUMP. 0R05 COL
5J04			V	V	IND FXD 1206 EMI 100MHZ 120R R

B17 SIDE CONNECTORS

Item	LC4.3x - ME5 styling	LC4.3x - Arch Styling	LC4.8x - LCD	LC4.9x - PDP	Description
1K00	V		V	V	CON V 6P M 2.00 PH B
1K01	V				CON V 12P M 2.00 PH B
1K03		V			CON V 20P F 1.25 FFC 0.3 B
1K04			V	V	CON V 11P M 2.00 PH B
2K15	V	V			CER1 0402 NP0 50V 100P COL
3K08	V	V			RST SM 0402 68R PM5 COL
4K02			V	V	RST SM 0603 JUMP. 0R05 COL
4K06		V			RST SM 0402 JUMP. 0R05 COL
5K01	V	V		V	FXDIND SM 0603 1U PM10 COL R

B18 ADC

Item	non-DVB sets with 3D Comb Filter	DVB sets with 3D Comb Filter	Description
3L38		V	RST SM 0402 JUMP. 0R05 COL
4L05		V	RST SM 0402 JUMP. 0R05 COL
5L04		V	RST SM 0603 JUMP. 0R05 COL

B20 & B21 PIXEL PLUS

Item	LC4.3 non PIXEL+	LC4.3 with PIXEL+	42PF7320/28	LC4.8/LC4.9 non PIXEL+	LC4.8/LC4.9 with PIXEL+	Description
1N02		V	V		V	CON V 4P M 2.00 SM PH R
1N05		V	V		V	OSC XTL SM 14M31818 15P OC R
1P06	V	V				CON V 30P M 1.25 SM 1453230 R
1P07			V	V	V	CON H 31P F 1.25 SM FI-WE R
2N01		V	V		V	CER2 0402 Y5V 16V 100N COL
2N02		V	V		V	CER2 0402 Y5V 16V 100N COL
2N03		V	V		V	CER2 0402 X5R 6V3 1U PM20 R
2N04		V	V		V	CER2 0402 X7R 50V 1N COL
2N05		V	V		V	CER2 0402 Y5V 16V 100N COL
2N06		V	V		V	CER2 0402 Y5V 16V 100N COL
2N07		V	V		V	CER2 0402 Y5V 16V 100N COL
2N08		V	V		V	CER2 0402 Y5V 16V 100N COL
2N09		V	V		V	CER2 0402 Y5V 16V 100N COL
2N10		V	V		V	CER2 0402 Y5V 16V 100N COL
2N11		V	V		V	CER1 0402 NP0 50V 100P COL
2N12		V	V		V	CER1 0402 NP0 50V 100P COL
2N13		V	V		V	CER1 0402 NP0 50V 100P COL
2N14		V	V		V	CER1 0402 NP0 50V 100P COL
2N15		V	V		V	CER1 0402 NP0 50V 100P COL
2N16		V	V		V	CER1 0402 NP0 50V 100P COL
2P01		V	V		V	CER2 0603 X5R 6V3 2U2 PM10 R
2P02		V	V		V	CER2 0402 Y5V 16V 100N COL
2P03		V	V		V	CER2 0402 Y5V 16V 100N COL
2P04		V	V		V	CER2 0402 Y5V 16V 100N COL
2P05		V	V		V	CER2 0402 Y5V 16V 100N COL
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2P07		V	V		V	CER2 0402 Y5V 16V 100N COL
2P08		V	V		V	CER2 0402 Y5V 16V 100N COL
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2P10		V	V		V	CER2 0402 Y5V 16V 100N COL
2P11		V	V		V	CER2 0402 Y5V 16V 100N COL
2P12		V	V		V	CER2 0402 Y5V 16V 100N COL
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2P14		V	V		V	CER2 0402 Y5V 16V 100N COL
2P15		V	V		V	ELCAP SM 16V 100U PM20 COL R
2P16		V	V		V	CER2 0402 Y5V 16V 100N COL
2P17		V	V		V	CER2 0603 X5R 6V3 2U2 PM10 R
2P18		V	V		V	CER2 0603 X5R 6V3 2U2 PM10 R
2P19		V	V		V	CER2 0402 Y5V 16V 100N COL
2P20		V	V		V	CER2 0402 Y5V 16V 100N COL
2P21		V	V		V	CER2 0402 Y5V 16V 100N COL
2P22		V	V		V	CER2 0603 X5R 6V3 2U2 PM10 R
2P23		V	V		V	CER2 0402 Y5V 16V 100N COL
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2P34		V	V		V	CER2 0402 Y5V 16V 100N COL
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3N01		V	V		V	RST SM 0402 10K PM5 COL
3N02		V	V		V	RST SM 0402 10K PM5 COL
3N03		V	V		V	RST SM 0402 10K PM5 COL
3N04		V	V		V	RST SM 0402 10K PM5 COL
3N05		V	V		V	RST SM 0402 10K PM5 COL
3N06		V	V		V	RST SM 0402 10K PM5 COL
3N07		V	V		V	RST SM 0603 33K PM5 COL
3N08		V	V		V	RST SM 0402 10K PM5 COL
3N09		V	V		V	RST SM 0402 1K PM5 COL
3N10		V	V		V	RST SM 0402 33K PM5 COL
3N11		V	V		V	RST SM 0402 47R PM5 COL
3N12		V	V		V	RST SM 0402 10K PM5 COL
3N13		V	V		V	RST SM 0402 10K PM5 COL
3N14		V	V		V	RST SM 0402 10K PM5 COL
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3N16		V	V		V	RST SM 0402 47R PM5 COL

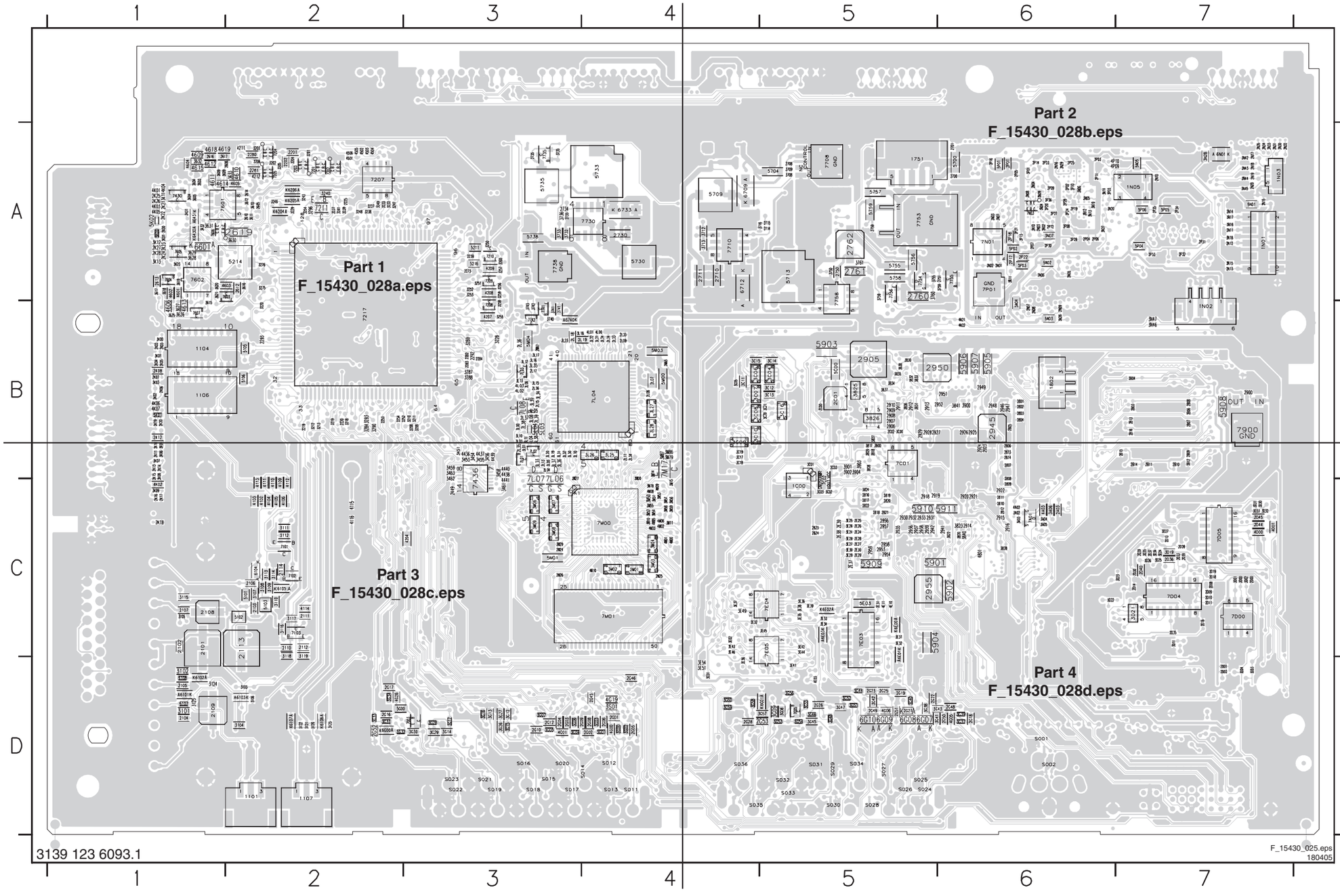
Item	LC4.3 non PIXEL+	LC4.3 with PIXEL+	42PF7320/28	LC4.8/LC4.9 non PIXEL+	LC4.8/LC4.9 with PIXEL+	Description
3N17		V	V		V	RST SM 0402 47R PM5 COL
3N18		V	V		V	RST SM 0402 47R PM5 COL
3N19		V	V		V	RST SM 0402 10K PM5 COL
3N20		V	V		V	RST SM 0402 47R PM5 COL
3N21		V	V		V	RST SM 0402 100R PM5 COL
3N22		V	V		V	RST SM 0402 100R PM5 COL
3N23		V	V		V	RST SM 0402 100R PM5 COL
3N24		V	V		V	RST SM 0402 100R PM5 COL
3N25		V	V		V	RST SM 0402 100R PM5 COL
3N26		V	V		V	RST SM 0402 4K7 PM5 COL
3N27		V	V		V	RST SM 0402 47R PM5 COL
3N28		V	V		V	RST SM 0603 180R PM5 COL
3N29		V	V		V	RST SM 0402 100R PM5 COL
3N30		V	V		V	RST SM 0402 100R PM5 COL
3N31		V	V		V	RST SM 0402 100R PM5 COL
3N32		V	V		V	RST SM 0402 100R PM5 COL
3N33		V	V		V	RST SM 0402 100R PM5 COL
3N34		V	V		V	RST SM 0402 100R PM5 COL
3N35		V	V		V	RST SM 0402 100R PM5 COL
3N46		V	V		V	RST SM 0402 100R PM5 COL
3N47		V	V		V	RST SM 0402 100R PM5 COL
3P01		V	V		V	RST SM 0402 4K7 PM5 COL
3P03		V	V		V	RST SM 0402 47R PM5 COL
3P04				V		RST SM 0402 100R PM5 COL
3P04					V	RST SM 0402 JUMP. 0R05 COL
3P05				V		RST SM 0402 100R PM5 COL
3P05					V	RST SM 0402 JUMP. 0R05 COL
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4N02	V			V		RST SM 0402 JUMP. 0R05 COL
4N03	V			V		RST SM 0402 JUMP. 0R05 COL
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4N09	V			V		RST SM 0402 JUMP. 0R05 COL
4N10	V			V		RST SM 0402 JUMP. 0R05 COL
4N11	V			V		RST SM 0402 JUMP. 0R05 COL
4N12	V			V		RST SM 0402 JUMP. 0R05 COL
4N13	V			V		RST SM 0402 JUMP. 0R05 COL
4N14	V			V		RST SM 0402 JUMP. 0R05 COL
4N15	V			V		RST SM 0402 JUMP. 0R05 COL
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4N18	V			V		RST SM 0402 JUMP. 0R05 COL
4N19	V			V		RST SM 0402 JUMP. 0R05 COL
4N20	V			V		RST SM 0402 JUMP. 0R05 COL
4N21		V	V		V	RST SM 0402 JUMP. 0R05 COL
4N22		V	V		V	RST SM 0402 JUMP. 0R05 COL
4P01						RST SM 0402 JUMP. 0R05 COL
4P02						RST SM 0402 JUMP. 0R05 COL
4P07				V		RST SM 0402 JUMP. 0R05 COL
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5N02		V	V		V	FXDIND 0805 100MHZ 30R COL R
5N03		V	V		V	FXDIND 0805 100MHZ 30R COL R
5N04		V	V		V	FXDIND 0805 100MHZ 30R COL R
5N05		V	V		V	FXDIND 0805 100MHZ 30R COL R
5P01		V	V		V	FXDIND 0805 100MHZ 30R COL R
5P02		V	V		V	FXDIND 0805 100MHZ 30R COL R
5P03		V	V		V	FXDIND 0805 100MHZ 30R COL R
5P04		V	V		V	FXDIND 0805 100MHZ 30R COL R
5P05		V	V		V	FXDIND 0805 100MHZ 30R COL R
5P06		V	V		V	FXDIND 0805 100MHZ 30R COL R
6N01		V	V		V	LED VS SM TLMG3100 (VISH) R
7N01		V	V		V	IC SM EPCS4SI8N (ALT0) R
7N02		V	V		V	IC SM EP1C12F256C8N (ALT0) Y
7N03		V	V		V	TRA SIG SM BC847BS (PHSE) R
7N04		V	V		V	IC SM THC63LVDF84B (THIN) R
7P01		V	V		V	IC SM LF15ABDT (ST00) R
7P02		V	V		V	IC SM THC63LVDM83R (THIN) R

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Layout Small Signal Board (Top Side Overview)

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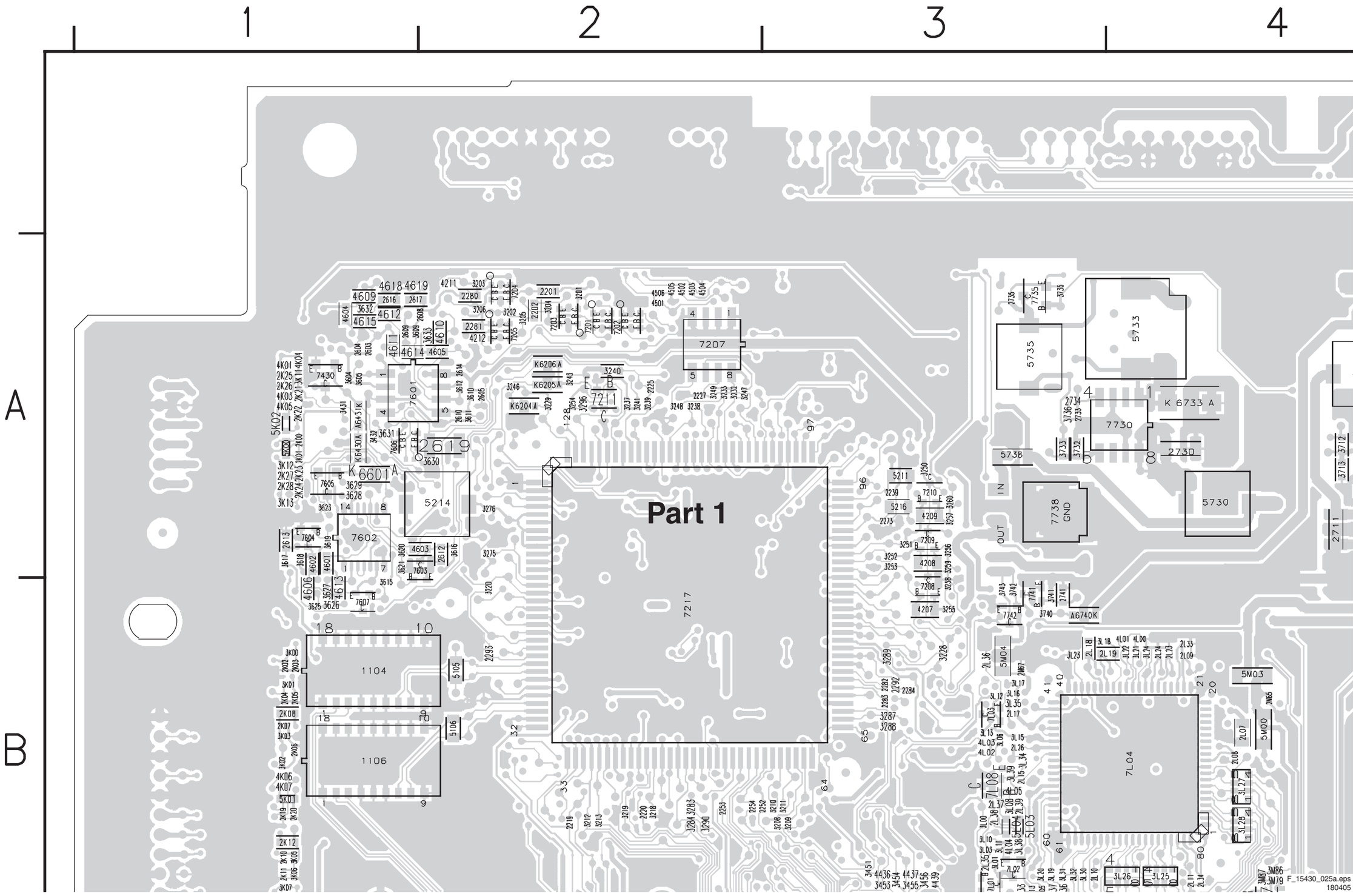
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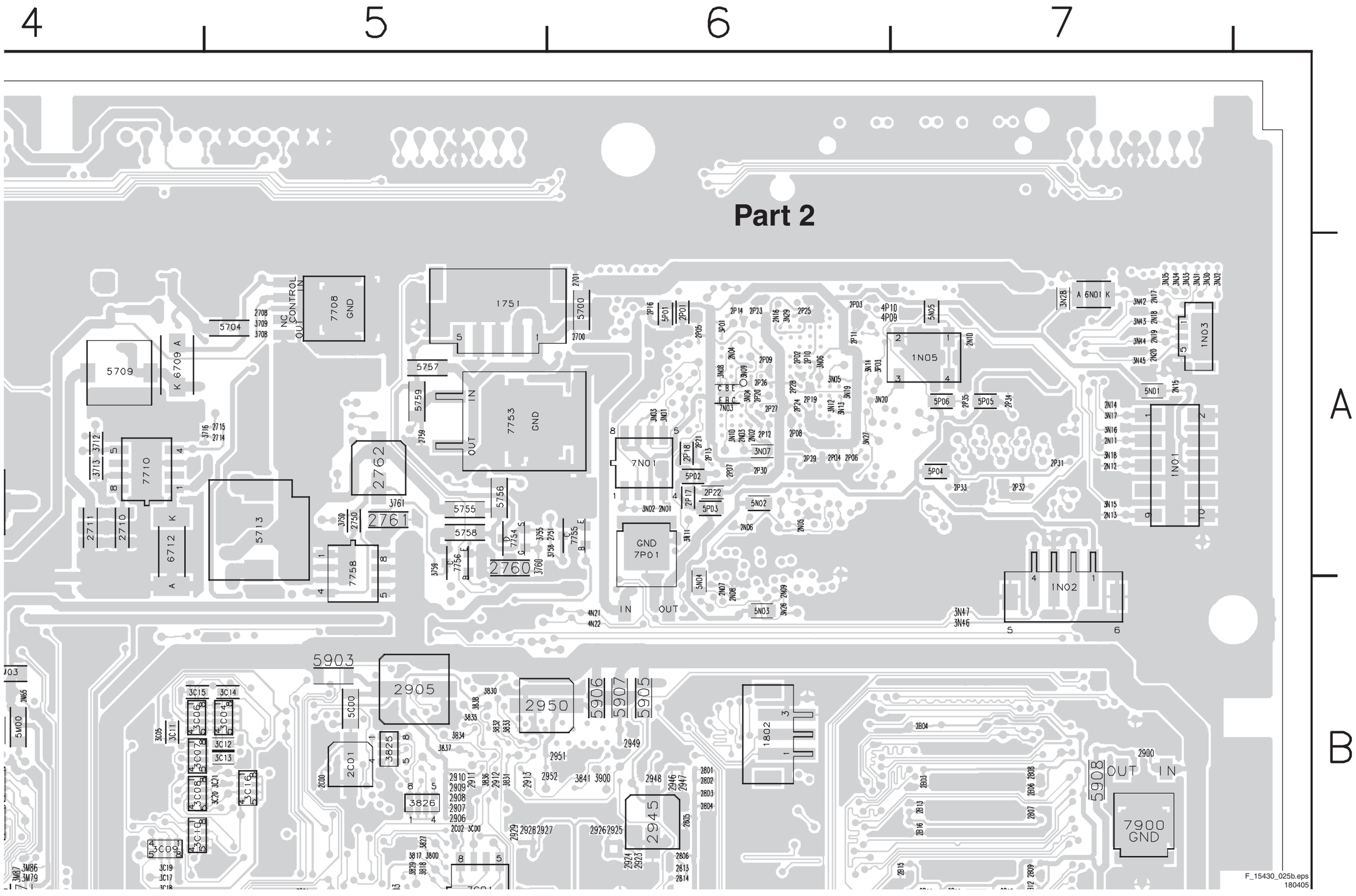
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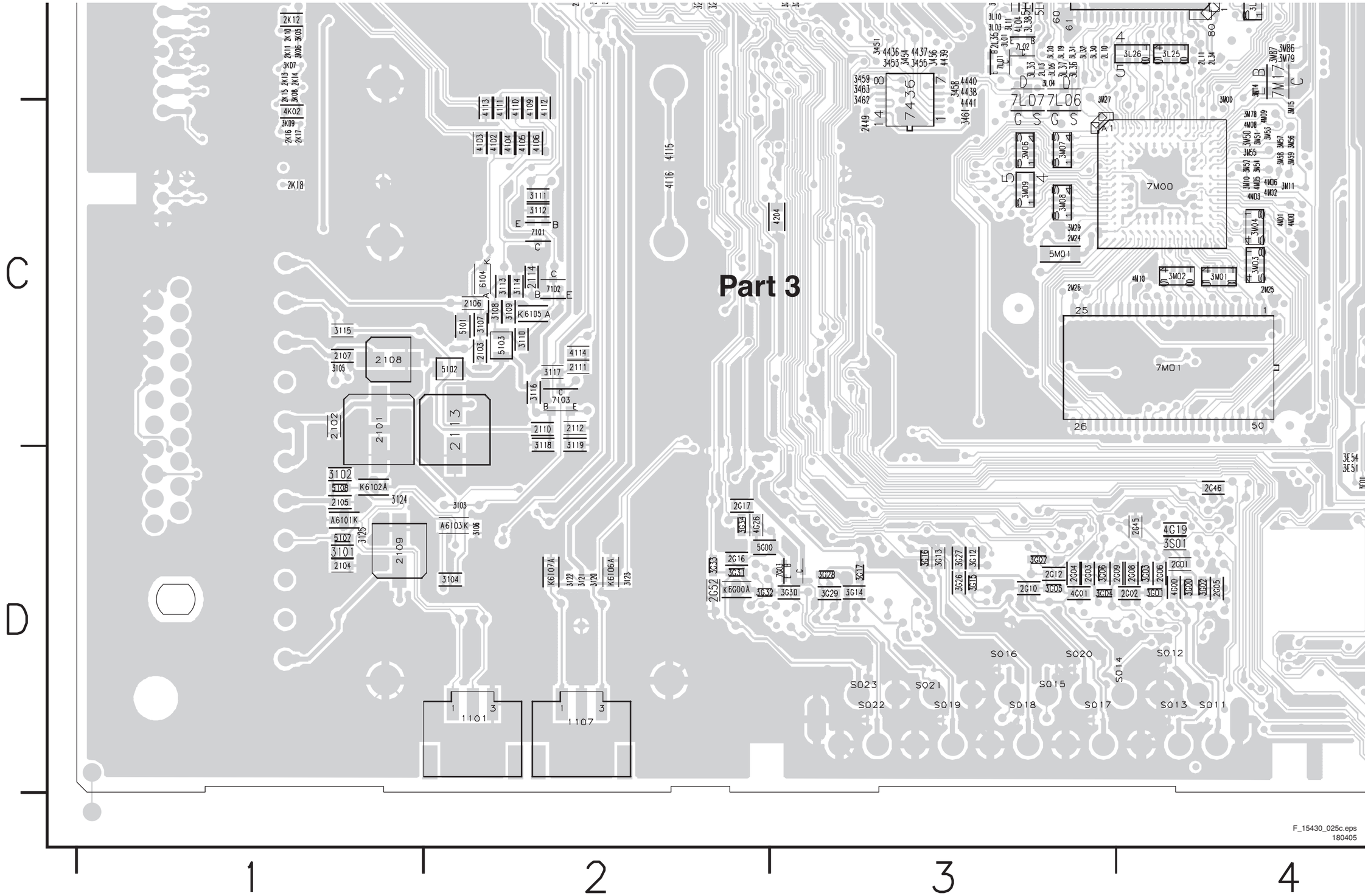
Layout Small Signal Board (Top Side Part 1)



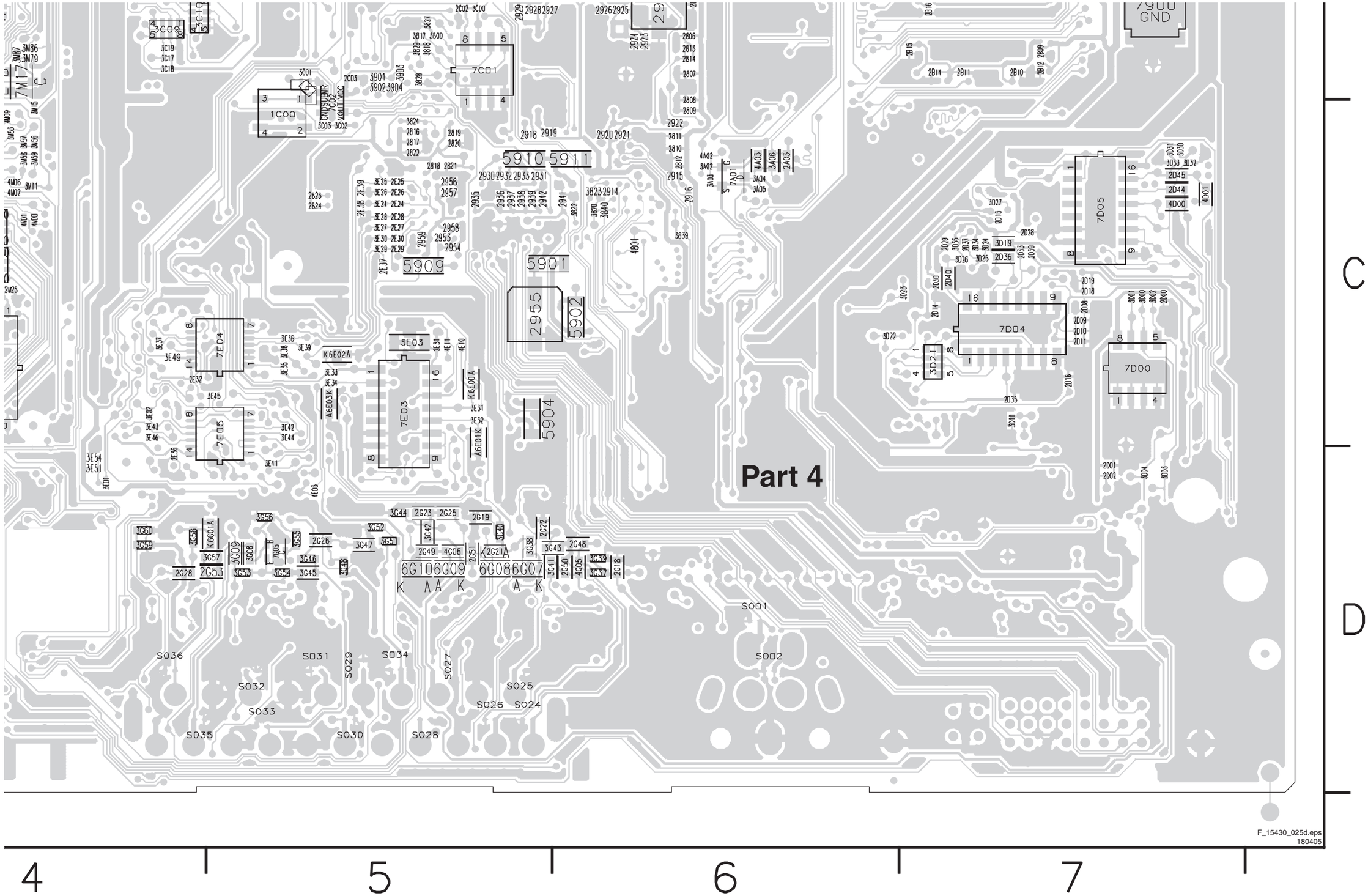
Layout Small Signal Board (Top Side Part 2)



Layout Small Signal Board (Top Side Part 3)

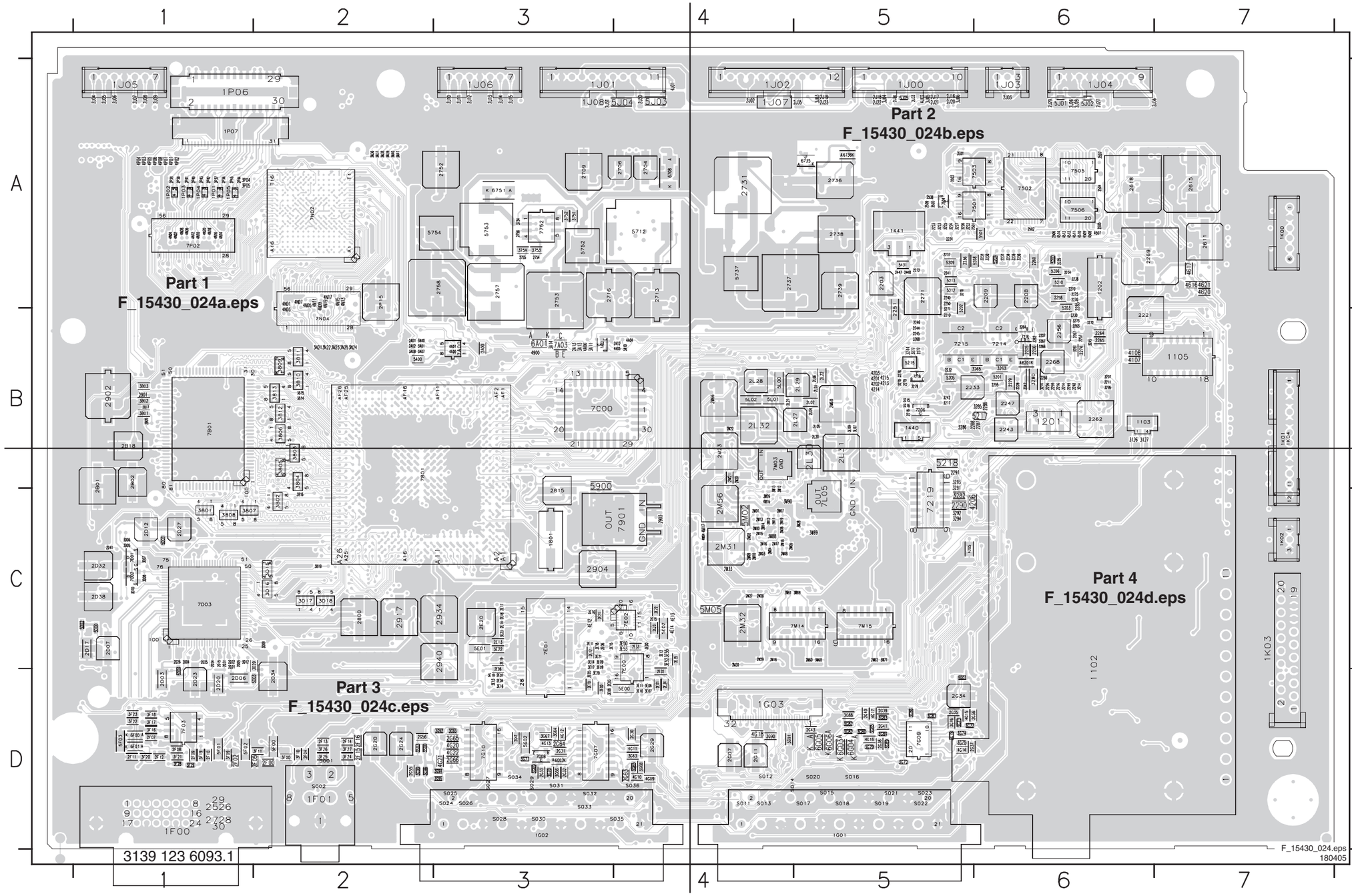


Layout Small Signal Board (Top Side Part 4)

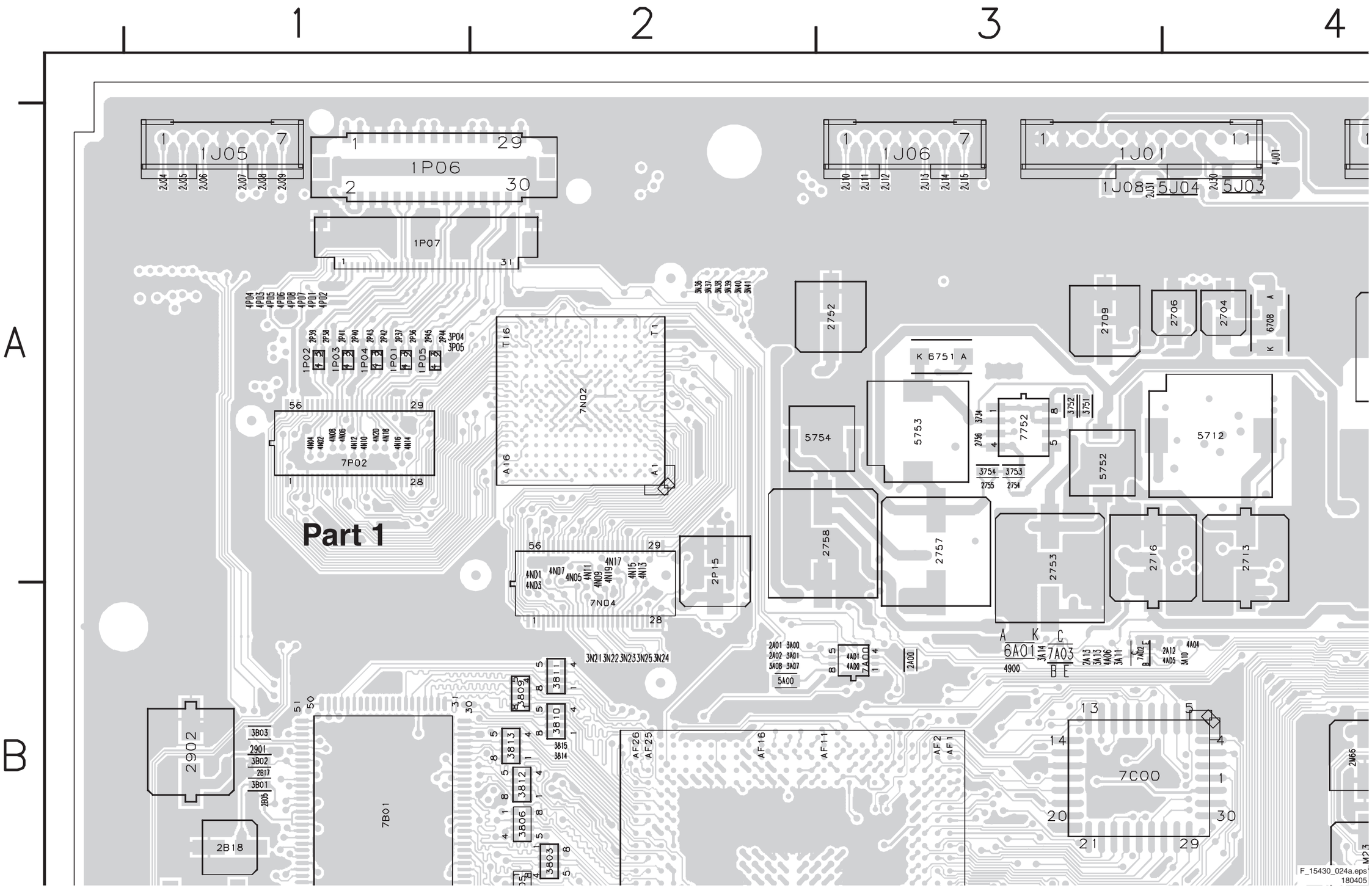


Layout Small Signal Board (Bottom Side Overview)

1102 C6 1J00 A5 1K04 B7 2209 A6 2231 A6 2245 B5 2262 B6 2276 A6 2502 A6 2709 A3 2757 A3 2A02 B2 2D12 C1 2D34 D2 2E10 D3 2E23 C4 2F12 D1 2G33 D3 2G63 D4 2J11 A3 2J26 A6 2L05 B5 2M02 C4 2M15 C4 2M31 C4 2P39 A1 3217 B5 3244 B5 3274 B6 3295 B6 3806 B2 3A01 B2 3D08 C1 3N21 B2 5212 A5
1103 B6 1J01 A3 1P01 A1 2210 B5 2232 B5 2246 B5 2263 B6 2277 B5 2503 A5 2713 A4 2758 A3 2A12 B4 2D15 C1 2D38 C1 2E11 C3 2E33 C4 2F13 D2 2G34 D5 2G64 D3 2J12 A3 2J27 A6 2L06 B5 2M03 C4 2M16 C4 2M32 C4 2P40 A1 3222 A5 3245 B6 3277 B5 3501 A5 3807 C1 3A07 B2 3D09 C2 3N22 B2 5213 A5
1105 B7 1J02 A4 1P02 A1 2211 B6 2233 B5 2247 B6 2264 B6 2278 B5 2504 A6 2716 A3 2800 C2 2A13 B3 2D17 C1 2D41 C1 2E12 C3 2E34 D4 2F14 D2 2G35 D5 2G65 D3 2J13 A3 2J28 A6 2L20 B5 2M04 C4 2M17 C4 2M33 C4 2P41 A1 3223 A5 3262 B6 3278 B5 3502 A5 3808 C1 3A08 B2 3D10 C1 3N23 B2 5215 B5
1201 B6 1J03 A6 1P03 A1 2214 B6 2234 A6 2248 B6 2265 B6 2279 B5 2505 A6 2731 A4 2815 C3 2B01 B1 2D20 D1 2E00 D3 2E13 C3 2E35 C4 2F15 D2 2G36 D5 2G66 D3 2J14 A3 2J29 A6 2L21 B4 2M05 C4 2M18 C4 2M56 C4 2P42 A1 3224 A5 3263 B6 3279 B5 3734 A3 3809 B2 3A10 B4 3D12 C1 3N24 B2 5217 B6
1202 A6 1J04 A6 1P04 A1 2216 B6 2235 A6 2249 B6 2266 B6 2285 A6 2506 A6 2736 A5 2901 B1 2B02 B1 2D21 C1 2E01 D4 2E14 C3 2F00 D2 2F16 D2 2G37 D5 2J02 A4 2J15 A3 2J30 A4 2L22 B5 2M06 C4 2M19 C4 2M60 C5 2P43 A1 3225 A5 3264 B6 3280 B6 3751 A3 3810 B2 3A11 B3 3D15 C2 3N25 B2 5218 B5
1440 B5 1J05 A1 1P05 A1 2218 B5 2236 A5 2250 A5 2267 B6 2286 B6 2507 A6 2737 A4 2902 B1 2B05 B1 2D22 C1 2E02 D4 2E15 C4 2F02 D1 2G07 D4 2G38 D5 2J03 A6 2J16 A5 2J31 A3 2L27 B5 2M07 C4 2M20 B4 2M61 C4 2P44 A1 3226 A5 3265 B6 3281 B6 3752 A3 3811 B2 3A13 B3 3D16 C2 3N36 A2 5431 A5
1441 A5 1J06 A3 1P06 A1 2221 B6 2237 A5 2251 B5 2268 B6 2287 B6 2508 A5 2738 A5 2903 C4 2B17 B1 2D23 D1 2E03 D3 2E16 C3 2F04 D2 2G11 D4 2G39 D5 2J04 A1 2J17 A5 2J33 A5 2L28 B4 2M08 C4 2M21 B4 2M62 C5 2P45 A1 3227 A5 3266 B6 3282 C5 3753 A3 3812 B2 3A14 B3 3D17 C2 3N37 A2 5501 A6
1801 C3 1J07 A4 1P07 A1 2223 A5 2238 A6 2255 B6 2269 A6 2288 B5 2509 A5 2739 A5 2904 C3 2B18 B1 2D24 C1 2E04 D3 2E17 C3 2F05 D2 2G20 D2 2G40 D5 2J05 A1 2J18 A5 2J34 A5 2L29 B5 2M09 C4 2M22 B4 2M66 B4 3126 B6 3230 A6 3267 B6 3285 B6 3754 A3 3813 B2 3B01 B1 3D18 C2 3N38 A2 5712 A4
1F00 D1 1J08 A3 2203 A5 2224 A5 2240 A5 2256 B6 2270 A6 2290 C5 2611 A7 2752 A3 2917 C2 2D03 D1 2D25 C1 2E05 D3 2E18 C3 2F07 D1 2G24 D2 2G41 D5 2J06 A1 2J19 A5 2J35 A5 2L30 B5 2M10 C4 2M23 B4 2M68 B5 3127 B6 3231 A6 3268 B5 3286 B5 3801 C1 3814 B2 3B02 B1 3D20 C2 3N39 A2 5737 A4
1F01 D2 1K00 A7 2205 B6 2226 B6 2241 A5 2257 B6 2271 A5 2291 B5 2615 A7 2753 A3 2934 C3 2D04 C1 2D26 C1 2E06 C3 2E19 C3 2F08 D1 2G29 D4 2G43 D5 2J07 A1 2J20 A5 2J36 A6 2L31 B5 2M11 C4 2M27 C4 2P15 A2 3207 B6 3234 A6 3270 A5 3291 B5 3802 C2 3815 B2 3B03 B1 3E00 C4 3N40 A2 5752 A3
1G01 D5 1K01 B7 2206 B6 2228 B6 2242 B6 2258 A6 2272 A5 2447 A5 2618 A6 2754 A3 2940 C3 2D05 C1 2D27 C1 2E07 D3 2E20 C3 2F09 D1 2G30 D4 2G47 D3 2J08 A1 2J21 A5 2L02 B5 2L32 B4 2M12 C4 2M28 C4 2P36 A1 3214 B6 3235 A6 3271 B5 3292 C5 3803 B2 3816 C2 3D05 C1 3E06 D4 3N41 A2 5753 A3
1G02 D3 1K02 C7 2207 B6 2229 B6 2243 B6 2259 B6 2274 B6 2448 A5 2704 A4 2755 A3 2A00 B3 2D06 D1 2D31 C1 2E08 D3 2E21 C3 2F10 D1 2G31 D3 2G55 D2 2J09 A1 2J22 A5 2L03 B5 2M00 C4 2M13 C4 2M29 C4 2P37 A1 3215 B5 3236 A6 3272 B6 3293 B5 3804 B2 3819 C2 3D06 C1 3E07 D4 3P04 A1 5754 A3
1G03 D4 1K03 C7 2208 A6 2230 B6 2244 B5 2260 A6 2275 A6 2501 A5 2706 A4 2756 A3 2A01 B2 2D07 C1 2D32 C1 2E09 C3 2E22 C4 2F11 D1 2G32 D3 2G56 D2 2J10 A3 2J23 A5 2L04 B5 2M01 C4 2M14 C4 2M30 C4 2P38 A1 3216 B5 3242 B5 3273 B6 3294 C5 3805 B2 3A00 B2 3D07 C1 3E08 D3 3P05 A1 5900 B3
3E09 C3 3S00 D2 5A00 B2
3E10 D4 3S03 D2 5D00 C1
3E11 D4 4107 B6 5D01 C1
3E12 C4 4108 B6 5D02 C1
3E13 D3 4201 B5 5D03 D2
3E14 C3 4202 B5 5D04 D1
3E15 C3 4203 B5 5E00 D4
3E16 D3 4205 C5 5E01 C3
3E17 C3 4206 C5 5E02 C4
3E18 C3 4213 B5 5F00 D2
3E19 D3 4214 B5 5F01 D1
3E20 D3 4215 B5 5F02 D1
3E21 C3 4507 A6 5F03 D1
3E22 C3 4508 A6 5G01 D5
3E23 C3 4509 A6 5G02 D3
3E50 C4 4510 A6 5J01 A6
3E52 C4 4511 A6 5J02 A6
3E53 C4 4512 A6 5J03 A4
3E55 C4 4513 A6 5J04 A4
3F00 D2 4514 A6 5J05 A5
3F09 D1 4616 A7 5L00 B4
3F10 D2 4617 A7 5L01 B4
3F11 D2 4620 A7 5L02 B4
3F16 D1 4621 A7 5M02 C4
3F17 D1 4900 B3 5M05 C4
3F18 D1 4A00 B3 6201 B6
3F19 D1 4A01 B3 6708 A4
3F20 D1 4A04 B4 6735 A5
3F21 D1 4A05 B4 6736 A5
3F22 D1 4A06 B3 6751 A3
3F23 D1 4E12 C3 6A01 B3
3F24 D2 4E13 C4 6F00 D1
3F25 D2 4E14 C4 6F01 D1
3F26 D2 4G09 D4 6G02 D3
3F27 D2 4G10 D4 6G03 D5
3F28 D1 4G11 D4 6G04 D5
3F29 D1 4G12 D3 6G05 D5
3G63 D4 4G13 D3 6G06 D5
3G64 D3 4G14 D5 7206 B5
3G65 D4 4G15 D5 7214 B6
3G66 D3 4G16 D5 7215 B5
3G67 D3 4G17 D5 7216 B6
3G68 D4 4G18 D4 7218 B5
3G69 D3 4G20 D3 7219 C5
3G70 D3 4G21 D3 7501 A6
3G71 D3 4G22 D3 7502 A6
3G72 D5 4J01 A4 7503 A6
3G73 D5 4J02 A5 7504 A5
3G74 D5 4M04 C4 7505 A6
3G75 D5 4M16 C4 7506 A6
3G76 D5 4M17 C4 7752 A3
3G77 D5 4N01 A2 7801 B2
3G78 D5 4N02 A1 7901 C4
3G79 D5 4N03 B2 7A00 B3
3G80 D5 4N04 A1 7A02 B3
3G81 D5 4N05 A2 7A03 B3
3G82 D5 4N06 A1 7B01 B1
3G83 D5 4N07 A2 7C00 B3
3G84 D5 4N08 A1 7D01 C1
3G85 D5 4N09 A2 7D02 C1
3G86 D5 4N10 A1 7D03 C1
3G87 D5 4N11 A2 7E00 C4
3G88 D5 4N12 A1 7E01 C3
3G89 D5 4N13 A2 7E02 C4
3G90 D4 4N14 A1 7F03 D1
3G91 D4 4N15 A2 7G07 D3
3G92 D3 4N16 A1 7G08 D3
3G93 D3 4N17 A2 7G09 D5
3G94 D3 4N18 A1 7G10 D3
3G95 D3 4N19 A2 7L05 C5
3G96 D2 4N20 A1 7M03 B4
3G99 D2 4P01 A1 7M14 C5
3J03 A5 4P02 A1 7M15 C5
3J04 A5 4P03 A1 7N02 A2
3J05 A5 4P04 A1 7N04 B2
3J06 A5 4P05 A1 7P02 A1
3L07 B5 4P06 A1
3L09 B5 4P07 A1
3M12 C4 4P08 A1
3M13 C4 5201 B6
3M16 C4 5202 B5
3M26 C4 5203 A6
3M28 C5 5204 A6
3M68 C5 5205 B5
3M69 C5 5206 A6
3M71 C5 5207 A6
3M88 C4 5208 A6
3M89 C5 5209 A5
3M90 C4 5210 A6



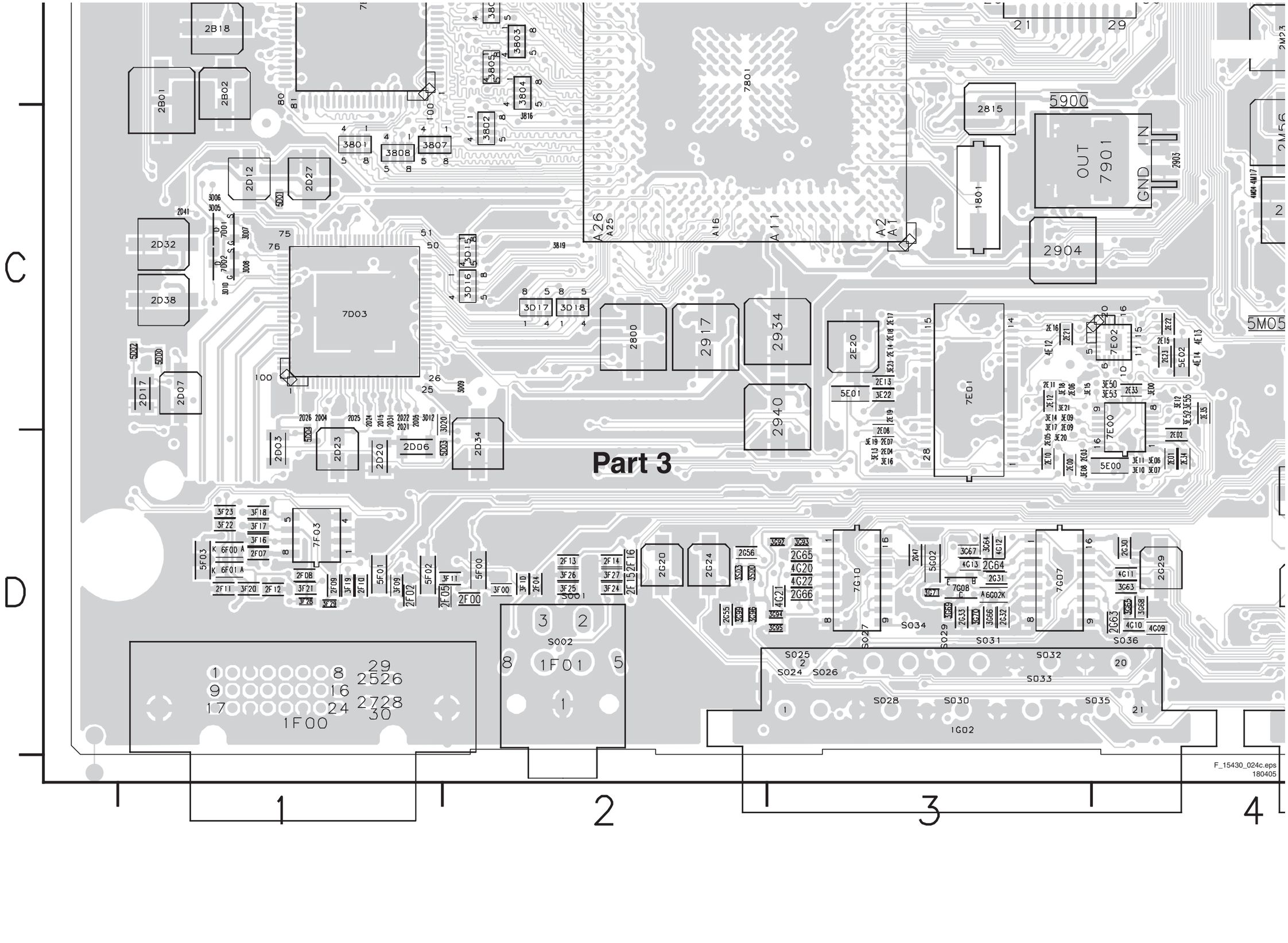
Layout Small Signal Board (Bottom Side Part 1)



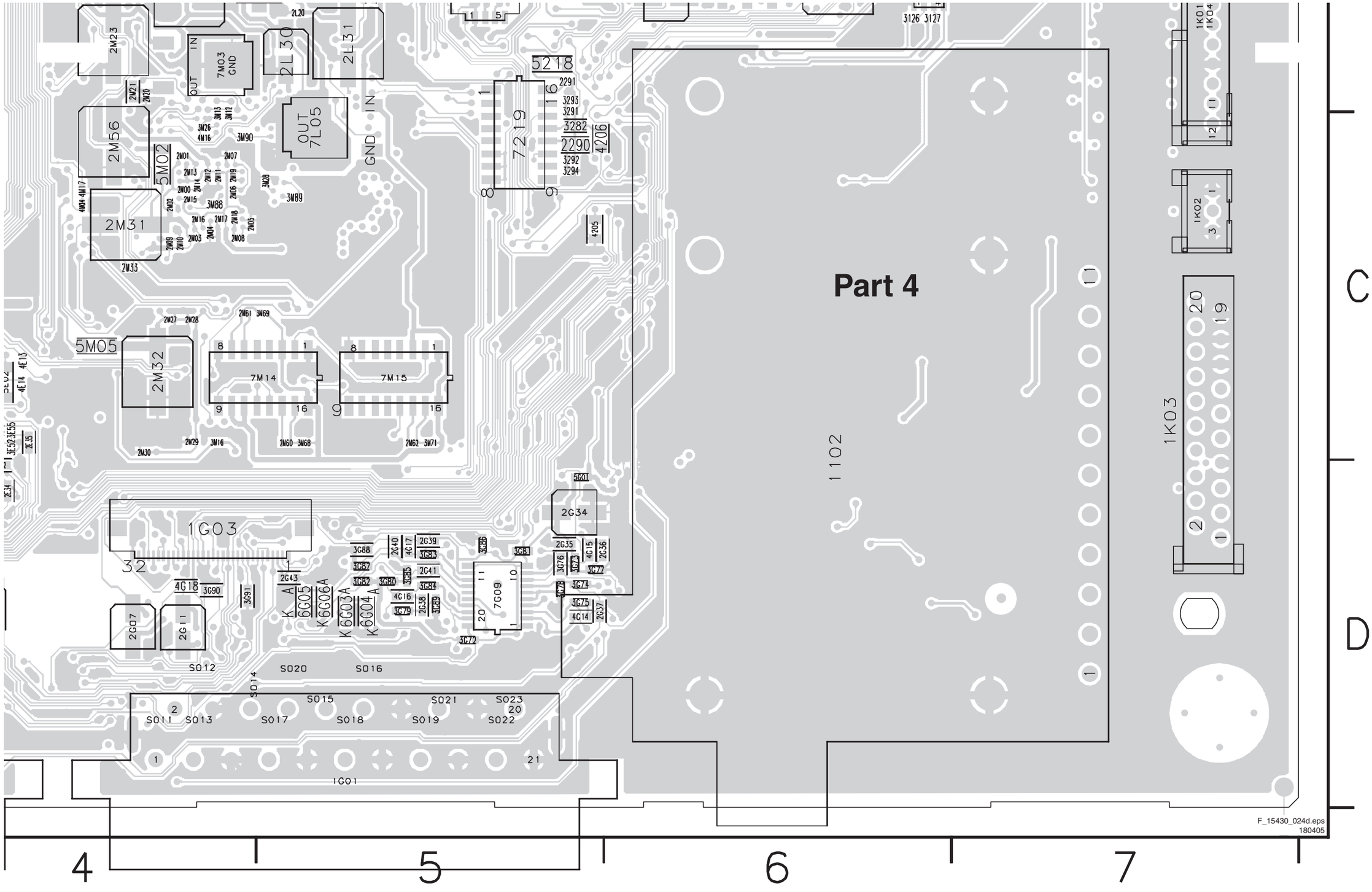
Layout Small Signal Board (Bottom Side Part 2)



Layout Small Signal Board (Bottom Side Part 3)



Layout Small Signal Board (Bottom Side Part 4)



SSB: Tuner and VIF

B1 TUNER & IF

1102	STANDARD SD2	IDTV SD2	FM RADIO SD2
EUROPE	UV1318S/AI H N3	UV1318SD/A CPHN 3	UR1316S/A I H3
CHINA	UV1318SI/AI C H3	-	UR1316S/A I H3
AP(PAL)	UV1316E/A I H4	-	UR1316S/A I H3
NA/LA/AP(NTSC)	UV1338/A F SH4	-	UR1336/A F I S H3

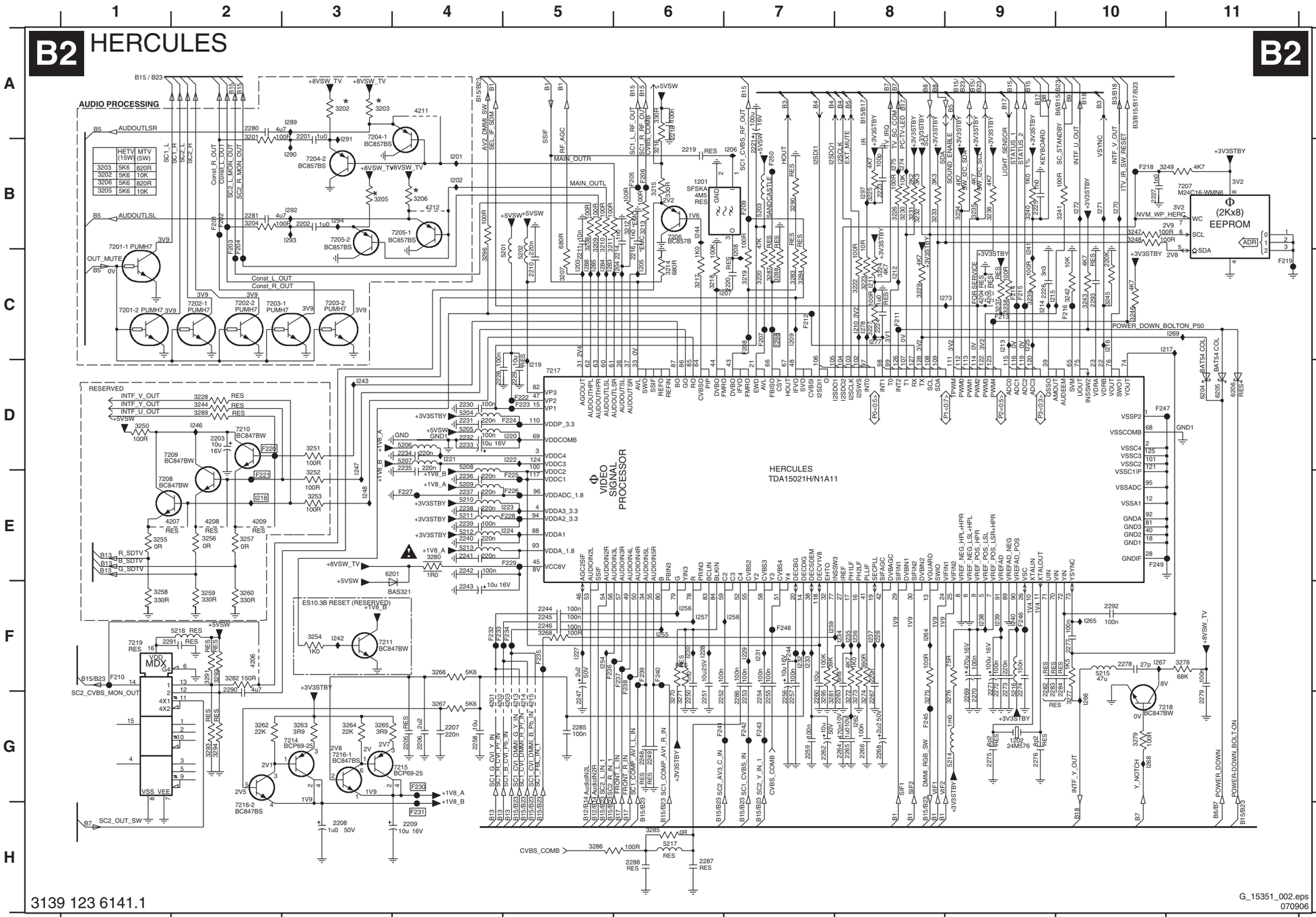
*	EU	AP	CHINA	NAFTA
4102	Y	Y	--	Y
4103	--	--	Y	--
4104	--	Y	--	--
4106	Y	--	Y	--
4110	Y	Y	Y	Y
4111	Y	--	--	--
4113	--	Y	Y	--
4107	--	--	Y	--
4108	--	--	Y	--

*	1104	1105	1106
EUROPE	OFWK3953L		OFWK9656L
AP	OFWK7265L	--	OFWK9361L
CHINA	OFWK3956L	OFWK9355L	OFWK9352L
NAFTA	OFWM1967L	--	--

*	Non-EU	EU
3104	0R	10K
6103	-	Yes

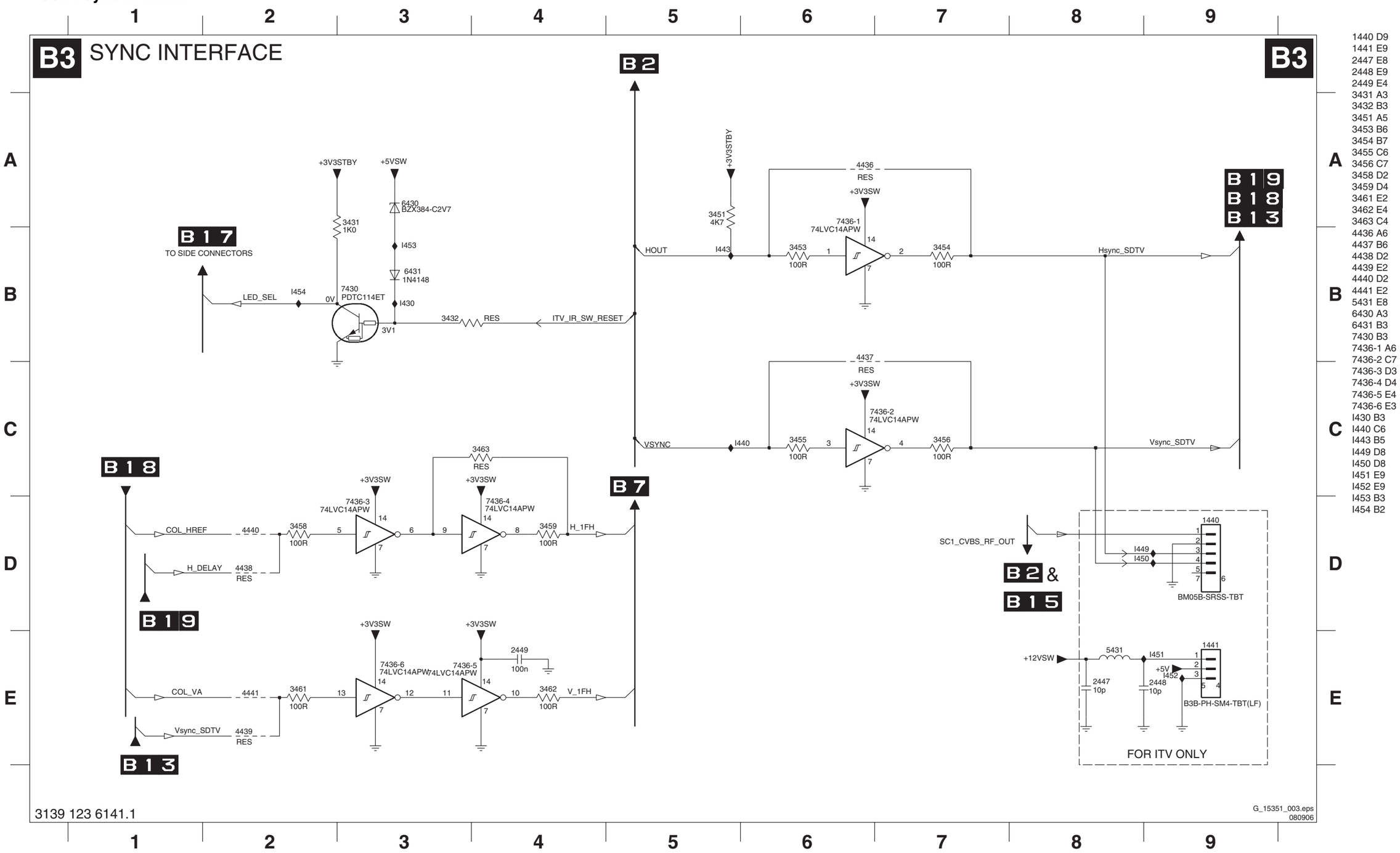
1101 B1 7101 D5
1102 A1 7102 D7
1103 D1 7103 E6
1104 B8 F101 B1
1105 C8 F102 B1
1106 E8 F103 C2
1107 F3 F104 C1
2101 A6 F105 C3
2102 A6 F106 D1
2103 A6 F107 D2
2104 C2 F108 A4
2105 C3 F109 D4
2106 C5 F110 B9
2107 D2 F111 B9
2108 D2 F112 E9
2109 D4 F113 E9
2110 E5 F114 F7
2111 E6 F115 F3
2112 F6 F116 F3
2113 A6 F117 F3
2114 D6 I101 C2
3101 C1 I102 B6
3102 C1 I103 C5
3103 C2 I104 D5
3104 C3 I105 D5
3105 D1 I106 D6
3106 D2 I107 E5
3107 B5 I108 E6
3108 B6 I109 F6
3109 C5 I110 D7
3110 B7 I111 E5
3111 D4 I112 C1
3112 D5 I113 C1
3113 D6
3114 D6
3115 E5
3116 E6
3117 E6
3118 F6
3119 F6
3120 F2
3121 F2
3122 F1
3123 F1
3124 B1
3125 C1
3126 D1
3127 D1
4102 B7
4103 B7
4104 B7
4105 B7
4106 C7
4107 C9
4108 C9
4109 E7
4110 E7
4111 E7
4112 E7
4113 E8
4114 F6
4115 B3
4116 B3
5101 B4
5102 A5
5103 A5
5105 B9
5106 E9
5107 C1
5108 C1
6101 C1
6102 C1
6103 C3
6104 C6
6105 C7
6106 F2
6107 F2

SSB: Hercules



1201 B6	3210 B5	4214 G5	I201 B4
1202 G9	3211 B5	4215 G5	I202 B4
2201 A3	3212 B6	5201 C4	I203 C5
2202 B3	3213 B6	5202 C5	I204 C6
2203 D2	3214 C6	5203 B7	I205 C6
2205 G4	3215 B6	5204 D4	I206 B7
2206 G4	3216 B6	5205 D4	I207 C7
2207 G4	3217 C6	5206 D4	I208 C7
2208 H3	3218 C6	5207 D4	I209 C7
2209 H4	3219 C7	5208 D4	I210 C8
2210 C5	3220 C7	5209 E4	I211 C8
2211 C5	3222 C8	5210 E4	I212 C8
2214 C6	3223 C8	5211 E4	I213 C9
2216 C6	3224 C8	5212 E4	I214 C9
2218 A6	3225 B8	5213 E4	I215 C9
2219 B6	3226 B8	5214 G9	I216 C10
2220 C7	3227 C8	5215 F10	I217 C11
2221 B7	3228 D2	5216 F9	I218 E2
2223 B8	3229 C8	5217 H6	I219 D5
2224 C8	3230 B8	5218 F2	I220 D5
2225 B9	3231 B8	6201 E4	I221 D4
2226 C9	3232 B8	6204 D11	I222 D5
2227 B10	3233 B8	6205 D11	I223 E5
2228 D4	3234 B9	6206 D11	I224 E5
2229 D5	3235 B9	7201-1 B1	I225 C9
2230 D4	3236 B9	7201-2 C1	I226 F8
2231 D4	3237 C9	7202-1 C2	I227 F5
2232 D4	3238 C9	7202-2 C2	I228 F6
2233 D4	3239 C9	7203-1 C2	I229 F7
2234 D4	3240 B9	7203-2 C3	I230 F6
2235 D4	3241 B10	7204-1 A3	I231 F7
2236 E4	3242 C10	7204-2 B3	I232 F7
2237 E4	3243 C10	7205-1 B4	I233 F7
2238 E4	3244 D2	7205-2 B3	I234 F8
2239 E4	3245 C10	7206 B6	I235 F8
2240 E4	3246 C10	7207 B11	I236 F8
2241 E4	3247 B10	7208 E2	I237 F8
2242 E4	3248 B10	7209 D2	I238 F9
2243 F4	3249 B11	7210 D2	I239 F9
2244 F5	3250 D1	7211 F3	I240 F9
2245 F5	3251 D3	7214 G3	I241 B9
2246 F5	3252 E3	7215 G4	I242 F3
2247 G5	3253 E3	7216-1 G3	I243 D3
2248 G6	3254 F3	7216-2 H2	I244 B6
2249 G6	3255 E1	7217 D5	I246 D2
2250 G6	3256 E2	7218 G10	I247 D3
2251 G6	3257 E2	7219 F1	I248 E3
2252 G6	3258 F1	F201 B2	I254 F5
2253 G7	3259 F2	F202 B2	I255 F6
2254 G7	3260 F2	F203 B2	I256 F6
2255 G7	3262 G2	F204 B2	I257 F6
2256 G7	3263 G3	F205 B6	I258 F7
2257 G7	3264 G3	F206 B6	I259 F7
2258 G4	3265 G3	F207 C7	I262 G8
2259 G7	3266 F4	F208 C7	I264 F8
2260 G7	3267 G4	F209 B7	I265 F10
2262 G7	3268 F5	F210 F1	I266 G10
2263 G8	3270 G6	F211 C8	I267 G10
2264 G8	3271 G6	F212 C7	I268 G10
2265 G8	3272 G8	F213 C9	I269 C11
2266 G8	3273 G8	F214 C9	I270 B10
2267 G8	3274 G8	F215 C9	I271 B10
2268 G8	3275 G8	F216 C10	I272 B10
2269 G9	3276 G9	F218 B10	I273 C9
2270 G9	3277 G10	F219 C11	I274 B8
2271 F9	3278 F11	F220 D2	I275 B8
2272 F9	3279 G10	F221 E2	I277 C8
2273 F9	3280 E4	F222 D5	I278 C8
2274 F9	3281 G7	F223 D5	I283 C5
2275 G9	3282 F2	F224 D5	I284 C5
2276 G9	3283 C7	F225 E5	I285 C5
2277 F10	3284 C7	F226 E5	I288 C5
2278 F10	3285 H6	F227 E4	I289 A3
2279 G11	3286 H5	F228 E5	I290 B3
2280 A2	3287 C7	F229 E5	I291 B3
2281 B2	3288 C7	F230 G4	I292 B3
2282 F9	3289 D2	F231 H4	I293 B3
2283 F9	3290 B7	F232 F4	I294 B3
2284 F10	3291 F2	F233 F4	I297 B8
2285 G5	3292 F2	F234 F5	I298 C7
2286 G7	3293 G2	F235 F5	
2287 H6	3294 G2	F236 F5	
2288 H6	3295 G7	F237 F6	
2290 G2	3296 C4	F238 F6	
2291 F1	4201 G4	F239 F6	
2292 F10	4202 G4	F240 F6	
2293 C10	4203 G5	F241 G6	
3201 B2	4204 C9	F242 G7	
3202 A3	4205 C9	F243 G7	
3203 A3	4206 F2	F244 F7	
3204 B2	4207 E2	F245 G8	
3205 B3	4208 E2	F246 F9	
3206 B4	4209 E2	F247 D10	
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3208 B5	4212 B4	F249 E10	
3209 B5	4213 G5	F250 B7	

SSB: Sync Interface

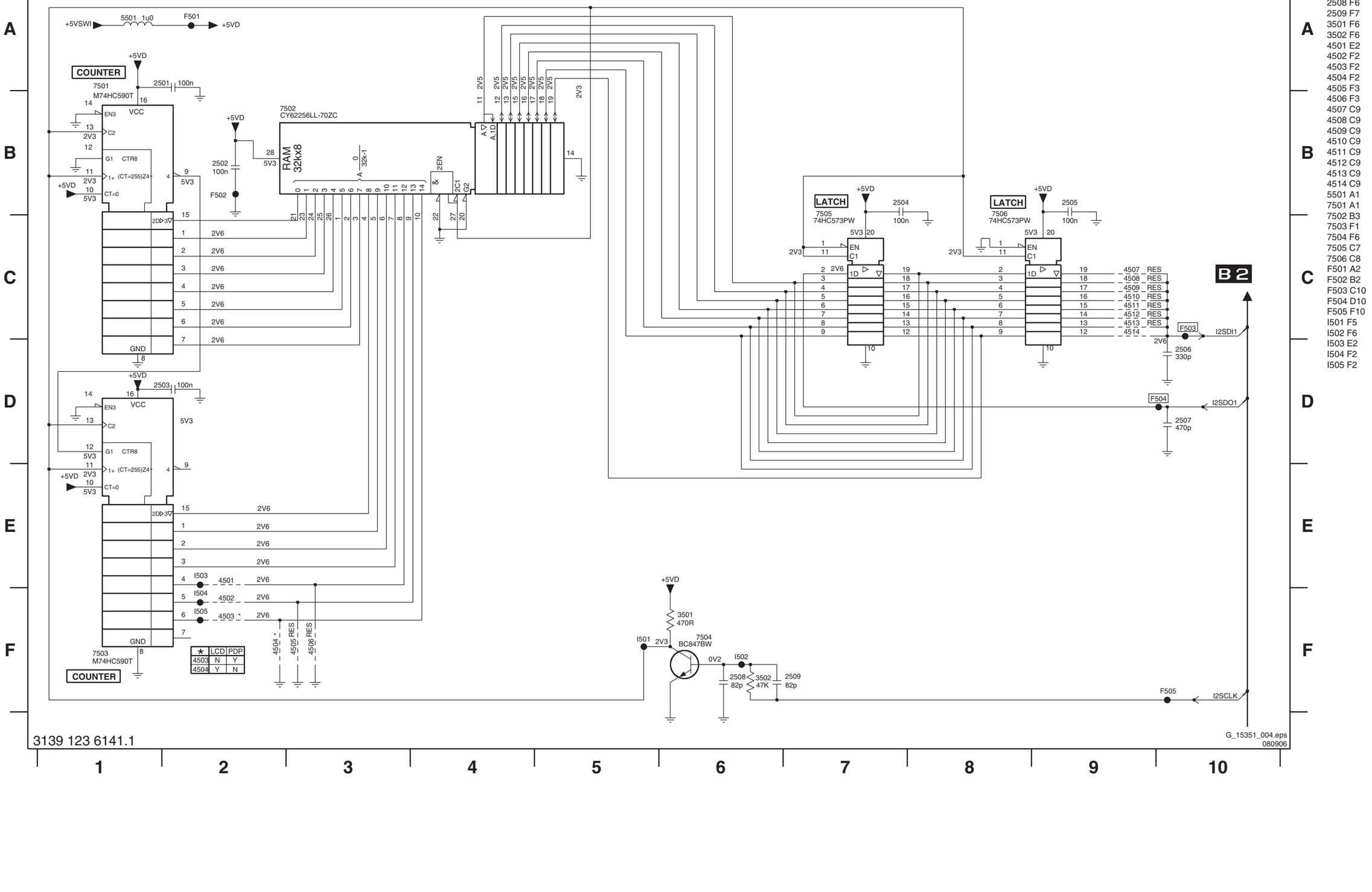


1440 D9
1441 E9
2447 E8
2448 E9
2449 E4
3431 A3
3432 B3
3451 A5
3453 B6
3454 B7
3455 C6
3456 C7
3458 D2
3459 D4
3461 E2
3462 E4
3463 C4
4436 A6
4437 B6
4438 D2
4439 E2
4440 D2
4441 E2
5431 E8
6430 A3
6431 B3
7430 B3
7436-1 A6
7436-2 C7
7436-3 D3
7436-4 D4
7436-5 E4
7436-6 E3
I430 B3
I440 C6
I443 B5
I449 D8
I450 D8
I451 E9
I452 E9
I453 B3
I454 B2

SSB: Audio Delay Line (Lipsync)

B4 AUDIO DELAY LINE (LIPSYNC)

2501 A1
2502 B2
2503 D1
2504 B7
2505 B9
2506 D10
2507 D10
2508 F6
2509 F7
3501 F6
3502 F6
4501 E2
4502 F2
4503 F2
4504 F2
4505 F3
4506 F3
4507 C9
4508 C9
4509 C9
4510 C9
4511 C9
4512 C9
4513 C9
4514 C9
5501 A1
7501 A1
7502 B3
7503 F1
7504 F6
7505 C7
7506 C8
F501 A2
F502 B2
F503 C10
F504 D10
F505 F10
I501 F5
I502 F6
I503 E2
I504 F2
I505 F2



*	LCD	PDP
4503	N	Y
4504	Y	N

SSB: Audio Processing

B5 AUDIO PROCESSING

FROM HERCULES B2

AUDOUTLSL
AUDOUTLSR
AUDIO-L
AUDIO-R
SOUND_ENABLE
HP_DET_R_DC
POWER_DOWN
EXT_MUTE
OUT_MUTE
ITV ONLY
HPIC_LIN
HPIC_RIN
HPIC_LOUT
HPIC_ROUT
HP_LOUT
HP_ROUT
SOUND_ENABLE_1
POR_AUDIO
RESERVED FOR UFD
+5VSW
+3V3SW
+3V3STBY
+5V
3V3
3V4
3V2
5V
5V3
5V2
0V
3.2 TO 4.3V

2603 B5 I612 D7
2604 B6 I613 E4
2605 B6 I614 E4
2608 C5 I615 F4
2609 C6 I616 F8
2610 C6 I617 F5
2611 C6 I618 B6
2612 F9 I619 D8
2613 C8
2614 C8
2615 B9
2616 B4
2617 C4
2618 B8
2619 F5
3604 B6
3605 B7
3609 C6
3610 C6
3611 C6
3612 B7
3615 D7
3616 E9
3617 D9
3618 D8
3619 D8
3620 F8
3621 F8
3623 F5
3625 C7
3626 D2
3627 E2
3628 E5
3629 E5
3630 F6
3631 F6
3632 B9
3633 B9
4601 D2
4602 C8
4603 F8
4604 B9
4605 C9
4606 D7
4609 B9
4610 B9
4611 B4
4612 C5
4613 D2
4614 G8
4615 G8
4616 D4
4617 D5
4618 B4
4619 C4
4620 F5
4621 F5
6601 F4
7601-1 B7
7601-2 C7
7602-1 D4
7602-2 D5
7602-3 E5
7602-4 E6
7603 E8
7604 D8
7605 F4
7606-1 F6
7606-2 F6
7607 D7
F601 B4
F602 B4
F603 B6
F604 C6
F605 C6
I602 B8
I603 C8
I604 B9
I605 B9
I606 D4
I607 D4
I608 B5
I610 C5
I611 D7

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SSB: DC-DC Converter

B6 DC-DC CONVERTER

B16 FROM TOP CONNECTORS

+12VUNREG — F701 — +12VSW

2704 10u 16V

+5V

I706

2706 10u 16V

5704

7708 LF33CPT

I709

I708

+12VUNREG — 3708 10K — 6708 SS24 — 6709 SS14 — 3709 6K8 — 2708 RES — 2709 47u 16V

IN OUT CTRL NC COM NC

F710 +3V3STBY

I710

5709 10u

I711

7710 L5973D

2710 10u — 2711 10u

VCC VREF INH SYNC NC COMP GND GND HS OUT FB

I712 — 5712 33u — I713 — 5713 10u

I714 — I715 — 2715 22n — I716

3712 5K6 1%

3713 3K3 1%

6712 SS36 — 2714 220p — 3716 4K7 — 2713 470u 16V

2716 470u 16V

SUP_GND2

FOR UFD ONLY

SUPPLY TO TUNER & HERCULES

7730 L5970D

+12VSW — 5730 10u — I731 — 2730 10u 25V

I705 — 2734 22n — 2733 220p — 3736 4K7

VCC COMP INH GND OUT FB SYNC VREF

I733 — 5733 220u — 6733 SS14

7735 BC817-25 — I735 — I734 — 3735 1K0

6735 BAV99 — 2735 470p

2736 22u 35V — 6736 BZX384-C33

F736 — 32V9 — +VTUN — TO TUNER CELL B1

SUP_GND1

7738 L78M08CDT

+12VSW — 5738 — 2738 47u 16V — 2739 47u 16V

IN OUT COM

3732 1K0 1% — I732 — 3733 3K3 1% — I736 — 5737 10u — 5735 1m0

5V2 — F737 — +5VSW

8V — F738 — +8VSW_TV

F743 — POWER_DOWN — B5

B7 B16

2731 470u 16V — 2737 470u 16V

+3V3STBY — 3743 22K — 3742 15K — I742 — 7742 BC847BW

+12VUNREG — 6740 BZX384-C8V2 — I740 — 3740 1K5 — 3741 1K5 — I741 — 7741 BC847BW — 2741 220n

FOR UFD ONLY

B2 TO HERCULES CELL

FOR LCD ONLY

+3V3STBY — +5VSWI — +12VSW

5758 RES — 5755 RES — 5756

I757 — I749 — I750 — 1751 RES

I756 — 7754 SI2301BDS-T1-E3 — 11V5 — SS = 4V9

5757

2749 10u — 3755 10K — 2751 100n — I747 6V8

5759 RES — 7753 L4940D2T12 — I759

IN OUT COM RES

PAN_VCC — 5700 — F700 — LVDS_VCC — 11V5

B21 TO EPLD

3758 15K — 3760 100R — 2759 RES — 2752 47u 16V — 2700 RES — 2701 100p

B8 FROM SCALER

7755 PDTC114ET — I760 — PANEL-PWR-CTL — F755 (0V) 0V6

2760 1u0 25V

FOR UFD ONLY

SUPPLY TO SCALER

7752 MC34063AD

8 DCOL — SWC 1 — 11V7

S Q R — IPK OSC — REFERENCE REGULATOR

+12VSW — I751 7 IS 11V7 — 5752 10u — 3751 1R0 — 3752 1R0

I752 6 VCC 11V7

CIN_NEG — GND 4

SWE 2 — TIMC 3 — I758 — 2756 470p — 5753 220u — 6751 SS14

3734 2K2 — I755

SUP_GND3

2753 470u 16V — 3753 1K0 1% — I753 5 1V2

GND — SUP_GND3 — 2754 RES — 3754 3K3 1% — I754 — 2755 4n7

5754 10u — F754 — +5VSWI — 5V4

B7 TO SCALER CELL

B4 TO LIPSYNC

2757 470u 16V — 2758 470u 16V

+3V3STBY — 3V2

B2 FROM HERCULES

3750 22K — 2750 2u2 — 2762 22u16V — 7758 SI9433BDY-T1-E3 SI9433DY

3759 1K0 — I748 — 0V — SC_STANDBY — 3V1 — 7756 PDTC114ET

3761 100R — 2761 1u0 25V

FOR UFD ONLY

3V2 — +3V3SW

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1751 A10 7752 D8
2700 B10 7753 B9
2701 B11 7754 B9
2704 A3 7755 B8
2706 B3 7756 G8
2708 C3 7758 F9
2709 C3 F700 B11
2710 C2 F701 A3
2711 C2 F710 B5
2713 D5 F736 E6
2714 D4 F737 F6
2715 D4 F738 G6
2716 D6 F743 G6
2730 F2 F754 E11
2731 G5 F755 C8
2733 F2 I705 E3
2734 F3 I706 B3
2735 F5 I708 C3
2736 E6 I709 B3
2737 G6 I710 C2
2738 G1 I711 C2
2739 G2 I712 C3
2741 G2 I713 C4
2749 B8 I714 D3
2750 F9 I715 D3
2751 B8 I716 D4
2752 B10 I731 E2
2753 E7 I732 G4
2754 E8 I733 E4
2755 F8 I734 F5
2756 E10 I735 E5
2757 F10 I736 F5
2758 F11 I740 G1
2759 B9 I741 G2
2760 C9 I742 G3
2761 G9 I747 B9
2762 F9 I748 F8
3708 C2 I749 A10
3709 C2 I750 A10
3712 D5 I751 D8
3713 D5 I752 E8
3716 D4 I753 E8
3732 F4 I754 E9
3733 F4 I755 D10
3734 D10 I756 B8
3735 F5 I757 A9
3736 F3 I758 E10
3740 G2 I759 B9
3741 G2 I760 B8
3742 G3
3743 G3
3750 F8
3751 E8
3752 E8
3753 E8
3754 E8
3755 B8
3758 B8
3759 F8
3760 B9
3761 G9
5700 B10
5704 B3
5709 C2
5712 C4
5713 C5
5730 E2
5733 F4
5735 F5
5737 F5
5738 G1
5752 E7
5753 E10
5754 E10
5755 A8
5756 A8
5757 B9
5758 A8
5759 B9
6708 C2
6709 C2
6712 D4
6733 F5
6735 E5
6736 E6
6740 G1
6751 E10
7708 B4
7710 C3
7730 E3
7735 E5
7738 F2
7741 G3
7742 G4

SSB: Scaler

B7 SCALER

B7

SYSTEM

CLK-SYN

GPIO

VIDEO

OCM-ADR

OCM_DATA

B3B-PH-SM4-TBT(LF)
FOR SW TESTING
(RES)
1802

3139 123 6141.1

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080906

1801 B12 7801-6 F4
1802 G14 7801-9 G11
2800 A1 F800 A1
2801 A1 F801 B3
2802 A1 F802 A9
2803 A1 F803 G14
2804 A2 F804 G14
2805 A2 I800 G2
2806 A2 I801 B12
2807 A2 I802 F10
2808 A2 I803 F10
2809 A3 I804 E12
2810 A3 I805 F12
2811 A3 I806 F12
2812 A3 I807 F12
2813 B2 I808 F12
2814 B3 I809 G12
2815 A9 I810 G12
2816 A9 I811 G14
2817 A10 I812 F3
2818 A10 I813 A1
2819 A10 I815 G3
2820 A12 I816 G2
2821 A12 I817 H5
2822 A12 I818 F3
2823 B10 I819 I10
2824 B12 I820 I10
3800 B2 I821 I10
3801-1 C1 I822 H12
3801-2 C1
3801-3 C1
3801-4 C1
3802-1 C1
3802-2 C1
3802-3 C1
3802-4 C1
3803-1 D1
3803-2 D1
3803-3 D1
3803-4 D1
3804-1 D1
3804-2 D1
3804-3 D1
3804-4 D1
3805-1 D1
3805-2 D1
3805-3 D1
3805-4 D1
3806-1 E1
3806-2 E1
3806-3 E1
3806-4 E1
3807-1 E1
3807-2 E1
3807-3 E1
3807-4 E1
3808-1 F1
3808-2 E1
3808-3 E1
3808-4 E1
3809-1 B6
3809-2 B6
3809-3 B6
3809-4 B6
3810-1 B6
3810-2 B6
3810-3 C6
3810-4 C6
3811-1 C6
3811-2 C6
3811-3 C6
3811-4 C6
3812-1 C6
3812-2 C6
3812-3 C6
3812-4 C6
3813-1 D6
3813-2 D6
3813-3 D6
3813-4 D6
3814 D6
3815 D6
3816 E6
3817 E5
3818 E5
3819 F2
3820 F1
3822 G5
3823 G5
3824 B12
3825-1 F9
3825-2 F9
3825-3 F9
3825-4 F9
3826-1 F9
3826-2 F9
3826-3 F9
3826-4 F9
3827 F12
3828 F12
3829 F12
3830 H10
3831 I9
3832 I9
3833 I9
3834 G12
3835 G12
3836 H12
3837 G14
3838 G14
3839 G3
3840 I3
3841 H14
4801 H5
7801-11 A11
7801-12 B4
7801-4 C11
7801-5 E11

SSB: Scaler

B8 SCALER

SUPPLY FOR SCALER

+3V3SW
5900 +3V3_PLL
5901 +3V3_ADC
5902 +3V3_DVI
5903 +3V3_IO
5904 F900 +3V3_LBADC
5905 +3V3_LVDSA
5906 +3V3_LVDSB
5907 +3V3_LVDS

+3V3SW 7900 LF25CDT IN OUT COM 1 3 2 I900 5908 +2V5_DDR
2900 100n 2901 1n0 2902 470u 16V

+3V3SW 7901 LD1086D2T18 IN OUT COM I901 3 2 I902 +1V8 1 5909 +1V8_ADC 5910 +1V8_DVI 5911 +1V8_CORE
2903 100n 2904 47u 16V

+3V3_IO F901 +2905 100u 16V 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916 100n
+1V8_CORE F902 +2917 100u 16V 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 100n

7801-13 GM1501-LF-BD SUPPLY
+3V3_IO: AC10 AC8 AC6 AC4 AB4 AA4 Y4 W4 D23 D22 D17 — IO_3.3
+1V8_CORE: U17 U16 U11 U10 T7 T6 T11 L16 L11 K17 K16 K11 K10 — CORE_1.8
D_GND: A13 B13 K12 K13 K14 K15 L10 L12 L13 L14 L15 L17 M10 M11 M12 M13 M14 M15 M16 M17 N10 N11 N12 N13 N14 N15 N16 N17 P10 P11 P12 P13 P14 P15 P16 P17 R10 R11 R12 R13 R14 R15 R16 R17 T10 T12 T13 T14 T15 U12 U13 U14 U15 AD15
I905

F903 +1V8_DVI 2930 2931 2932 2933 100n
F904 +3V3_DVI 2934 47u 16V 2935 2936 2937 2938 2939 100n
7801-2 GM1501-LF-BD DVI
DVI_1.8: D6 D8 D9 D10
DVI_3.3: C11 C10 C9 C8 C6

B14 TO DIGITAL-IO (SCART ONLY)
SCL_DVI N4 — DVI_SCL|GPI_07
SDA_DVI N3 — DVI_SDA|GPI_08
RXC+IN A6 RXC-IN B6 — RXCp RXCn
RX0+IN A8 RX0-IN B8 — RX0p RX0n
RX1+IN A9 RX1-IN B9 — RX1p RX1n
RX2+IN A10 RX2-IN B10 — RX2p RX2n
B11 REXT
DVI_GND: A7 A11 B5 C5 C7 D7 D11
I906

B2 KEYBOARD 4900 RES
+3V3_LBADC
+ 2940 47u 16V 2941 100n
7801-3 GM1501-LF-BD ADC
C13 LBADC_33
C12 LBADC_IN1
(RES) B12 LBADC_IN2
(RES) A12 LBADC_IN3
D12 LBADC_RETURN
LBADC_GND D13
2942 100n

7801-14 GM1501-LF-BD NC
NC A1 AC17 NC
NC C5 NC NC K3 NC
NC D5 F1 NC

7801-10 GM1501-LF-BD DISPLAY PWR
AD19 LVDSA_GND_1 — VDDD33_LVDS AE17 F905 +3V3_LVDS
AC19 LVDSA_GND_2 — LVDSA_3.3_3 AC22 F906 +3V3_LVDSA
AC20 LVDSA_GND_3 — LVDSA_3.3_2 AC21
AC13 LVDSB_GND_1 — LVDSA_3.3_1 AD20
AC14 LVDSB_GND_2 — LVDSB_3.3_3 AC12 F907 +3V3_LVDSB
AC15 LVDSB_GND_3 — LVDSB_3.3_2 AD13
AD17 VSSD33_LVDS — LVDSB_3.3_1 AD12
2945 22u 16V 2946 100n 2947 100n 2948 100n 2949 100n
2950 22u 16V 2951 100n 2952 100n

B18 ADC
B19 & B2 TO COLUMBUS / HERCULES
B13 TO MUX-SYNC INTERFACE
B16 TO TOP CONN.
B16 FROM DC-DC CONVERTER B6

7801-7 GM1501-LF-BD CTRL
3900 3K3 I904 AC16 OEXTR — PPWR|GPIO_08 A26 PANEL-PWR-CTL
FAN_SPEED C26 PWM0|GPIO_10 — PBIAS|GPIO_09 B26 LAMP_ON_OFF
DCLK|GPIO_17 AC7 NC
HD_FILTER C25 PWM1|GPIO_11 — PWM2|GPIO_12 D26 I903 BU_LHT_ADJ2 (RES)

+3V3STBY 3901 RES 3902 RES F908 +1V8_ADC 2953 100n 2954 100n
+3V3_ADC F909 2955 22u 16V 2956 100n 2957 100n 2958 100n 2959 100n

7801-1 GM1501-LF-BD ANA-IN
ADC_1.8: A4 A3
ADC_3.3: B3 D3 A2
AVSYNC L3
AHSYNC L4
SCL 3903 100R N2 — VGA_SCL|GPI_05
SDA 3904 100R N1 — VGA_SDA|GPI_06
SOG C3
R_PR+ D2 — REDp
R_PR- D1 — REDn
G_Y+ C2 — GREENp
G_Y- C1 — GREENn
B_PB+ B2 — BLUEp
B_PB- B1 — BLUEn
ADC_AGND: C4 D4 E1 E2 E4
ADC_DGND: A5 B4
F910

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2900 C2 I905 C4
2901 C2 I906 E6
2902 C3
2903 E2
2904 E3
2905 A4
2906 A4
2907 A5
2908 A5
2909 A5
2910 A5
2911 A6
2912 A6
2913 A6
2914 A6
2915 A6
2916 A7
2917 A7
2918 A7
2919 A8
2920 A8
2921 A8
2922 A8
2923 A9
2924 A9
2925 A9
2926 A9
2927 A9
2928 A10
2929 A10
2930 C5
2931 C6
2932 C6
2933 C6
2934 C8
2935 C8
2936 C8
2937 C8
2938 C8
2939 C9
2940 B10
2941 B10
2942 C10
2945 D11
2946 D11
2947 D11
2948 D12
2949 D12
2950 D11
2951 D11
2952 D12
2953 E9
2954 E9
2955 E10
2956 E11
2957 E11
2958 E11
2959 E12
3900 F5
3901 E8
3902 E9
3903 F9
3904 F9
4900 B9
5900 A2
5901 B2
5902 B2
5903 B2
5904 B2
5905 B2
5906 C2
5907 C2
5908 C3
5909 D3
5910 E3
5911 E3
7801-1 F10
7801-10 C10
7801-13 B6
7801-14 A11
7801-2 C7
7801-3 B11
7801-7 F6
7900 C2
7901 D2
F900 B2
F901 A4
F902 A7
F903 C5
F904 C8
F905 D11
F906 D11
F907 D11
F908 E9
F909 E10
F910 G10
I900 C2
I901 E2
I902 E2
I903 G7
I904 F5

SSB: Scaler Interface

B9 SCALER INTERFACE

B9

7801-8
GM1501-LF-BD

ACp|GPIO_G06_B6|DORED8 AE20
ACn|GPIO_G06_B7|DORED9 AF20
A3p|GPIO_G06_B4|DORED6 AE19
A3n|GPIO_G06_B5|DORED7 AF19
A2p|GPIO_G05_B1|DOGRN3 AE21
A2n|GPIO_G05_B2|DOGRN4 AF21
A1p|GPIO_G05_B4|DOGRN6 AE22
A1n|GPIO_G05_B5|DOGRN7 AF22
A0p|GPIO_G05_B6|DOGRN8 AE23
A0n|GPIO_G05_B7|DOGRN9 AF23
NC
SHIELD5|DEBLU5 AD14
SHIELD4|DEBLU2 AE13
SHIELD3|DEGRN5 AE11
SHIELD2|DEGRN4 AD11
SHIELD1|DEGRN3 AC11
SHIELD0|DEGRN2 AF10
BCp|DEGRN8 AE12
BCn|DEGRN9 AF13
B3p|DEGRN6 AF11
B3n|DEGRN7 AF12
B2p|DEBLU3 AF14
B2n|DEBLU4 AE14
B1p|DEBLU6 AF15
B1n|DEBLU7 AE15
B0p|DEBLU8 AF16
B0n|DEBLU9 AE16
LVDS

TXBC+ TXBC-
TXB3+ TXB3-
TXB2+ TXB2-
TXB1+ TXB1-
TXB0+ TXB0-

B20 TO EPLD

B7 TO SCALER

BU_LHT_ADJ1
3A02 1K0

RESERVED
IA07
4A02 RES
IA05
BACKLIGHT_DIM
B20 FROM EPLD

RES +5VSWI
3A03 RES
3A05 RES
7A01 SI2301DS-T1
3A04 1K0
IA06
3A06 10K
IA00
2A03 1u0
BACKLIGHT_CTRL
B16 TO TOP CONNECTORS
4A03

BACKLIGHT CONTROL				
	5V DC	5V PWM	3V3 DC	3V3 PWM
3A03	390R	390R	-	-
3A05	-	-	-	-
3A04	1K	1K	-	-
7A01	Y	Y	-	-
4A03	-	-	Y	Y
3A06	10K	0R	10K	0R
2A03	1u	-	1u	-

FOR PDP ONLY

+3V3SW
3A07 10K
3A08 10K
2A00 100n
+3V3SW
5A00
7A00 PCA9515ADP
VCC
B21 TO EPLD
SDA_DMA_BUS1_DISP
SCL_DMA_BUS1_DISP
3A00 68R
3A01 68R
IA08
IA09
SDA1 SDA0 SCL1 SCL0 EN NC GND
SDA_IO
SCL_IO
4A04 (PDP)
BUF_ENABLE
2A01 100p
2A02 100p
4A00_RES
4A01_RES

FOR UFD ONLY

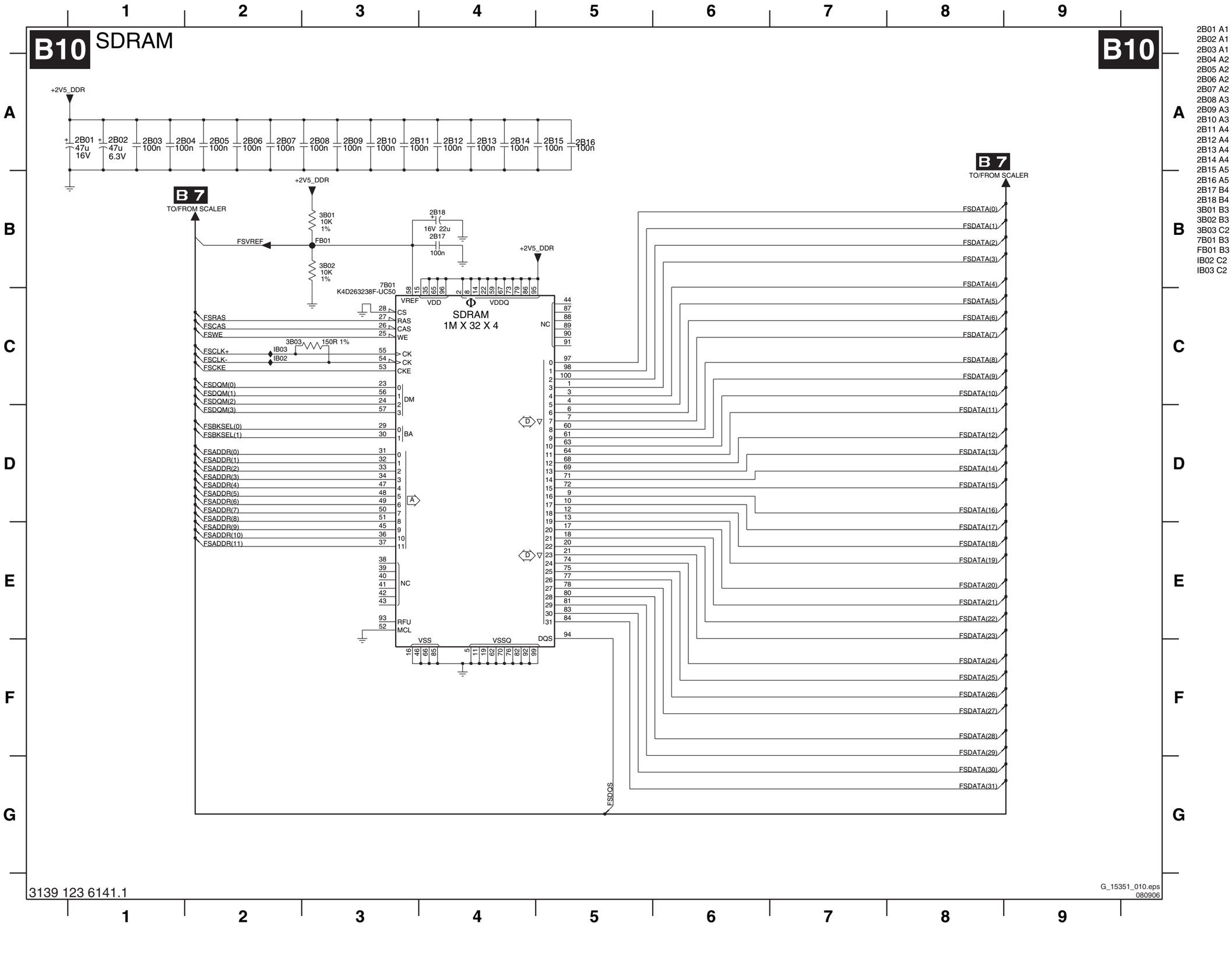
+3V3STBY
2A13 100n
3A13 10K
+3V3STBY
3A11 4K7
+5V
3A14 4K7
7A03 BC847BW
B2 FROM HERCULES
SC_STANDBY
3A10 10K
IA03
2A12 10n
7A02 BC847BW
6A01 BZX384-C3V9
STANDBY
4A05
4A06

2A00 D3
2A01 E2
2A02 E2
2A03 C7
2A12 F6
2A13 D8
3A00 E2
3A01 E2
3A02 C5
3A03 B6
3A04 C6
3A05 C6
3A06 C7
3A07 E2
3A08 E2
3A10 F6
3A11 E7
3A13 D8
3A14 E9
4A00 F3
4A01 F3
4A02 B6
4A03 D6
4A04 E4
4A05 F6
4A06 F8
5A00 E3
6A01 F8
7801-8 A2
7A00 E3
7A01 C6
7A02 E6
7A03 E8
IA00 C7
IA03 F6
IA05 B8
IA06 C6
IA07 B6
IA08 E2
IA09 E2

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SSB: SDRAM


B10 SDRAM
B10
+2V5_DDR
2B01 47u 16V
2B02 47u 6.3V
2B03 100n
2B04 100n
2B05 100n
2B06 100n
2B07 100n
2B08 100n
2B09 100n
2B10 100n
2B11 100n
2B12 100n
2B13 100n
2B14 100n
2B15 100n
2B16 100n
B 7
TO/FROM SCALER
3B01 10K 1%
3B02 10K 1%
FSVREF
FB01
2B18 16V 22u
2B17 100n
7B01
K4D263238F-UC50
SDRAM
1M X 32 X 4
VREF
VDD
VDDQ
VSS
VSSQ
CS
RAS
CAS
WE
CK
CKE
DM
BA
A
NC
RFU
MCL
DQS
3B03 150R 1%
IB03
IB02
FSRAS
FSCAS
FSWE
FSCLK+
FSCLK-
FSCKE
FSDQM(0)
FSDQM(1)
FSDQM(2)
FSDQM(3)
FSBKSEL(0)
FSBKSEL(1)
FSADDR(0)
FSADDR(1)
FSADDR(2)
FSADDR(3)
FSADDR(4)
FSADDR(5)
FSADDR(6)
FSADDR(7)
FSADDR(8)
FSADDR(9)
FSADDR(10)
FSADDR(11)
FSDATA(0)
FSDATA(1)
FSDATA(2)
FSDATA(3)
FSDATA(4)
FSDATA(5)
FSDATA(6)
FSDATA(7)
FSDATA(8)
FSDATA(9)
FSDATA(10)
FSDATA(11)
FSDATA(12)
FSDATA(13)
FSDATA(14)
FSDATA(15)
FSDATA(16)
FSDATA(17)
FSDATA(18)
FSDATA(19)
FSDATA(20)
FSDATA(21)
FSDATA(22)
FSDATA(23)
FSDATA(24)
FSDATA(25)
FSDATA(26)
FSDATA(27)
FSDATA(28)
FSDATA(29)
FSDATA(30)
FSDATA(31)
FSDQS
2B01 A1
2B02 A1
2B03 A1
2B04 A2
2B05 A2
2B06 A2
2B07 A2
2B08 A3
2B09 A3
2B10 A3
2B11 A4
2B12 A4
2B13 A4
2B14 A4
2B15 A5
2B16 A5
2B17 B4
2B18 B4
3B01 B3
3B02 B3
3B03 C2
7B01 B3
FB01 B3
IB02 C2
IB03 C2
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SSB: Flash / Control

B11 FLASH / CONTROL

B 7 TO SCALER

+3V3_IO
5C00
FC00
2C00
100n
2C01
10u 16V

7C00
M29W040B-55K1
ROM
512Kx8
[FLASH]

OCMADDR(0) 12
OCMADDR(1) 11
OCMADDR(2) 10
OCMADDR(3) 9
OCMADDR(4) 8
OCMADDR(5) 7
OCMADDR(6) 6
OCMADDR(7) 5
OCMADDR(8) 27
OCMADDR(9) 26
OCMADDR(10) 23
OCMADDR(11) 25
OCMADDR(12) 4
OCMADDR(13) 28
OCMADDR(14) 29
OCMADDR(15) 3
OCMADDR(16) 2
OCMADDR(17) 30
OCMADDR(18) 1

#OCM_RE 24 OE
#OCM_WE 31 WE
#ROM_CS 22 CE

A 0 512K-1

DQ 0..7

OCMDATA(0) 13
OCMDATA(1) 14
OCMDATA(2) 15
OCMDATA(3) 17
OCMDATA(4) 18
OCMDATA(5) 19
OCMDATA(6) 20
OCMDATA(7) 21

B 7 TO SCALER

OCMADDR(0:19)
OCMDATA(0:7)

+3V3_IO
3C04-1 1 10K 8
3C04-2 2 10K 7
3C04-3 3 10K 6
3C04-4 4 10K 5
3C05 10K

3C11 RES
3C12 RES
3C13 RES
3C14 RES
3C15 RES

3C06-1 1 10K 8
3C06-2 2 10K 7
3C06-3 3 10K 6
3C06-4 4 10K 5

OCMADDR(0)
OCMADDR(1)
OCMADDR(2)
OCMADDR(3)

3C07-1 1 10K 8
3C07-2 2 10K 7
3C07-3 3 10K 6
3C07-4 4 10K 5

OCMADDR(4)
OCMADDR(5)
OCMADDR(6)
OCMADDR(7)

3C08-2 2 10K 7
3C08-1 1 10K 8
3C08-3 3 10K 6
3C08-4 4 10K 5

OCMADDR(8)
OCMADDR(9)
OCMADDR(10)
OCMADDR(11)

3C09-1 1 10K 8
3C09-2 2 10K 7
3C09-3 3 10K 6
3C09-4 4 10K 5

OCMADDR(12)
OCMADDR(15)
OCMADDR(16)
OCMADDR(18)

3C10-1 1 10K 8
3C10-2 2 10K 7
3C10-3 3 10K 6
3C10-4 4 10K 5

OCMADDR(17)
OCMADDR(14)
OCMADDR(13)
OCMADDR(19)

+3V3_IO
3C16-4 5 10K 4
3C17 10K
3C16-3 6 10K 3
3C16-1 8 10K 1
3C16-2 7 10K 2
3C18 10K

FC09 FC10 FC08 FC07 FC06

3C19 RES
3C20 RES
3C21 RES

+3V3SW
3C00 10K
2C02 100n
3V2
7C01 M24C32-WMN6
Φ (4Kx8) EEPROM
WC SCL SDA ADR

NVM_WP_SCALER 0V FC01
SCL_IO 3V2 FC02
SDA_IO 3V2 FC03

+3V3SW
3V2
2C03 100n
1C00 SKQR
For Software Development only - (RES)
FC04
3C01 10K
7C02 PST596J
MR VCC SUB GND VOUT
FC05
3V2
3C02 1K0
3C03 RES
#RESET

B 7 & B 12 TO SCALER
& B 19 TO HDMI
TO COLUMBUS

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1C00 E4
2C00 A3
2C01 A3
2C02 E2
2C03 E5
3C00 E2
3C01 E5
3C02 E6
3C03 E6
3C04-1 A6
3C04-2 A6
3C04-3 A6
3C04-4 A6
3C05 A6
3C06-1 B5
3C06-2 B5
3C06-3 B5
3C06-4 B5
3C07-1 B5
3C07-2 B5
3C07-3 B5
3C07-4 B5
3C08-1 B5
3C08-2 B5
3C08-3 C5
3C08-4 C5
3C09-1 C5
3C09-2 C5
3C09-3 C5
3C09-4 C5
3C10-1 C5
3C10-2 C5
3C10-3 C5
3C10-4 C5
3C11 A6
3C12 A6
3C13 A6
3C14 B6
3C15 B6
3C16-1 B7
3C16-2 B7
3C16-3 B6
3C16-4 B6
3C17 B6
3C18 B7
3C19 C6
3C20 C7
3C21 C7
5C00 A3
7C00 A2
7C01 E3
7C02 E5
FC00 A3
FC01 E2
FC02 E2
FC03 E2
FC04 E4
FC05 E6
FC06 C6
FC07 C6
FC08 C7
FC09 B7
FC10 B7

SSB: HDMI

B12 HDMI

B12

B 7 FROM SCALER

SCL_IO
SDA_IO

7D00 M24C02-WMN6 (256x8) EEPROM

3D00 4K7 3D01 4K7 3D02 4K7 2D00 100n FD00

+3V3SW

5D00 5D01 5D02 5D03 5D04

FD07 FD08 FD09 FD10 FD11

2D07 22u 6.3V 2D12 22u 6.3V 2D17 10u 2D20 10u 2D23 22u 6.3V 2D27 22u 6.3V

2D08 100n 2D13 100n 2D18 100n 2D21 100n 2D24 100n 2D28 100n

2D09 1n0 2D14 1n0 2D19 1n0 2D22 1n0 2D25 1n0 2D29 1n0

2D10 1n0 2D15 1n0 2D26 1n0 2D30 1n0

2D11 1n0 2D16 1n0 2D31 1n0

PLLIN

COMP

3D10 390R

B 22 FROM DIGITAL-IO (CINCH ONLY)

DOC_SDA FD01 3D03 0R
DOC_SCL FD02 3D04 0R ID00
+5VHDMI FD03

2D01 10n 2D02 1n0

FD04 ID01

B 11 FROM FLASH/CONTROL

#RESET

3D05 100R 3D06 100R 3D07 4K7 3D08 4K7 3D09 33R

7D01 BSN20 7D02 BSN20 ID02 ID03

7D03 SII9993CTG100 Φ HDMI PANEL LINK RECEIVER

AVCC VCC PVCC1 PVCC2 DACVCC DACVCCR DACVCCG DACVCCB OVCC1

RESET MCLKIN MCLKOUT CSCL CSDA DSCL DSDA

RXC- RXC+ RX0- RX0+ RX1- RX1+ RX2- RX2+

RSET COMP PLLIN PLLOUT EXT-RES

3D11 100R ID04 ID05 ID06 ID07 ID22 3D12 3K9

2D03 10u 2D04 10n 2D05 47n 2D06 10u

B 13 TO MUX-SYNC INTF

H_HDMI FD05
V_HSMI FD06

HSYNC VSYNC

NC RSVDL RSVDO SPDIF (NC) SDO WS SCK DE ODCK INT

ANRPR ANGY ANBPB

3D21-4 533R 3D21-3 633R 3D21-2 733R 3D21-1 833R FD15 FD12

3D22 33R 3D23 33R

AGND GND PGND DACGND DACGNDR DACGNDG DACGNDB OGND GND_HS

FD17

HDMI_Y(0:7) HDMI_CbCr(0:7)

3D15-11 8 33R HDMI_Y(0)
3D15-22 7 33R HDMI_Y(1)
3D15-33 6 33R HDMI_Y(2)
3D15-44 5 33R HDMI_Y(3)
3D16-11 8 33R HDMI_Y(4)
3D16-22 7 33R HDMI_Y(5)
3D16-33 6 33R HDMI_Y(6)
3D16-44 5 33R HDMI_Y(7)
3D17-11 8 33R HDMI_CbCr(0)
3D17-22 7 33R HDMI_CbCr(1)
3D17-33 6 33R HDMI_CbCr(2)
3D17-44 5 33R HDMI_CbCr(3)
3D18-11 8 33R HDMI_CbCr(4)
3D18-22 7 33R HDMI_CbCr(5)
3D18-33 6 33R HDMI_CbCr(6)
3D18-44 5 33R HDMI_CbCr(7)

B 7 TO SCALER

+3V3SW 3D19 1R0 3D20 1R0 AUDIO DAC

2D32 47u 6.3V FD13 FD14 2D34 47u 6.3V
2D33 100n 2D35 100n

7D04 UDA1334BT/N2

BCK WS DATAI MUTE DEEM PCS VSYCLK VOL VOR VSSA VSSD VREF-DAC VDDA VDDD

DIGITAL INTERFACE
DE-EMPHASIS
INTERPOLATION FILTER
NOISE SHAPER
DAC DAC

SFOR0 SFOR1

2D36 1u0 ID08 ID09 3D24 220R 3D25 100R 3D34 100K 2D37 10n
ID10 2D38 47u 6.3V 2D39 100n
ID11 3D26 220R 3D27 100R 3D35 100K 2D40 1u0 10V 2D41 10n
ID12 ID13 ID14

B 22 TO DIGITAL-IO (CINCH ONLY)

ID17 FD16 ID16 ID15

AV3_LEFT
AV3_HDMI-AUDIO_SEL
AV3_RIGHT

4D00 4D01 FOR SET W/O AV3

7D05 HEF4053B VDD MDX VEE VSS

+3V3SW 3D30 RES 3D31 RES 3D32 RES 3D33 RES

2D44 1u0 ID18 AudioIN2R
2D45 1u0 ID19 AudioIN2L

B 2 TO HERCULES

HDMI_VDV
HDMI_VCLK

B 7 FROM SCALER

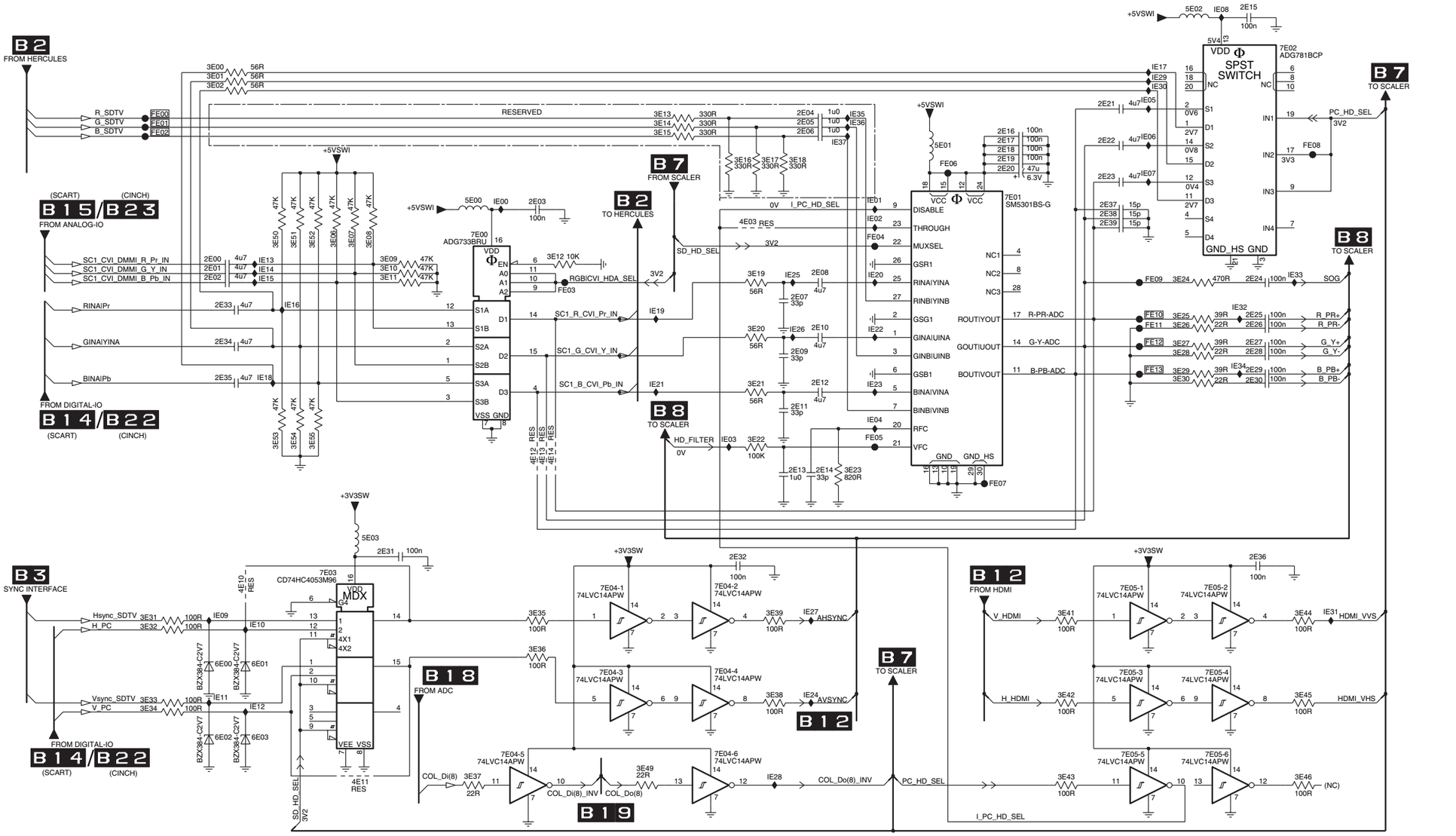
2D00 B3 FD11 B7
2D01 D2 FD12 G9
2D02 D3 FD13 E11
2D03 F4 FD14 E11
2D04 F4 FD15 F10
2D05 G4 FD16 E13
2D06 G4 FD17 H7
2D07 B5 ID00 C2
2D08 B5 ID01 D3
2D09 B5 ID02 D4
2D10 B5 ID03 D4
2D11 B5 ID04 F5
2D12 B5 ID05 F5
2D13 B5 ID06 F5
2D14 B5 ID07 G5
2D15 B5 ID08 G10
2D16 B5 ID09 G11
2D17 B6 ID10 G12
2D18 B6 ID11 G12
2D19 B6 ID12 H12
2D20 B6 ID13 H12
2D21 B6 ID14 I12
2D22 B6 ID15 G13
2D23 B7 ID16 F13
2D24 B7 ID17 E13
2D25 B7 ID18 G14
2D26 B7 ID19 G14
2D27 B8 ID20 G14
2D28 B8 ID21 G14
2D29 B8 ID22 G4
2D30 B8
2D31 C8
2D32 E11
2D33 E11
2D34 E12
2D35 E12
2D36 G11
2D37 H11
2D38 H12
2D39 H12
2D40 G12
2D41 H13
2D44 G14
2D45 G14
3D00 B2
3D01 B2
3D02 B3
3D03 C2
3D04 C2
3D05 D3
3D06 D4
3D07 D4
3D08 D4
3D09 D5
3D10 C5
3D11 F4
3D12 G4
3D15-1 C11
3D15-2 C11
3D15-3 C11
3D15-4 C11
3D16-1 C11
3D16-2 C11
3D16-3 C11
3D16-4 D11
3D17-1 D11
3D17-2 D11
3D17-3 D11
3D17-4 D11
3D18-1 D11
3D18-2 D11
3D18-3 E11
3D18-4 E11
3D19 E11
3D20 E12
3D21-1 G9
3D21-2 G9
3D21-3 G9
3D21-4 F9
3D22 G9
3D23 G9
3D24 H11
3D25 H11
3D26 H12
3D27 H12
3D30 G14
3D31 G14
3D32 G14
3D33 G14
3D34 H11
3D35 H12
4D00 F13
4D01 F13
5D00 A5
5D01 A6
5D02 A6
5D03 A6
5D04 A7
7D00 B1
7D01 D3
7D02 D4
7D03 C5
7D04 F11
7D05 F13
FD00 B2
FD01 C2
FD02 C2
FD03 D2
FD04 D2
FD05 G2
FD06 G2
FD07 B5
FD08 B6
FD09 B6
FD10 B6

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SSB: MUX-Sync Interface

B13 MUX-SYNC INTERFACE



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2E00 C3	6E01 F3
2E01 C3	6E02 G3
2E02 C3	6E03 G3
2E03 B5	7E00 C5
2E04 B7	7E01 B9
2E05 B7	7E02 A11
2E06 B7	7E03 E4
2E07 C7	7E04-1 E6
2E08 C8	7E04-2 E7
2E09 D7	7E04-3 F6
2E10 C8	7E04-4 F7
2E11 D7	7E04-5 G5
2E12 D8	7E04-6 G7
2E13 D7	7E05-1 E10
2E14 D8	7E05-2 E11
2E15 A11	7E05-3 F10
2E16 B9	7E05-4 F11
2E17 B9	7E05-5 G10
2E18 B9	7E05-6 G11
2E19 B9	FE00 B2
2E20 B9	FE01 B2
2E21 B10	FE02 B2
2E22 B10	FE03 C6
2E23 B10	FE04 C8
2E24 C11	FE05 D8
2E25 C11	FE06 B9
2E26 C11	FE07 E9
2E27 D11	FE08 B11
2E28 D11	FE09 C10
2E29 D11	FE10 C10
2E30 D11	FE11 C10
2E31 E4	FE12 D10
2E32 E7	FE13 D10
2E33 C3	IE00 B5
2E34 C3	IE01 B8
2E35 D3	IE02 C8
2E36 E11	IE03 D7
2E37 B10	IE04 D8
2E38 C10	IE05 B10
2E39 C10	IE06 B10
3E00 A3	IE07 B10
3E01 A3	IE08 A11
3E02 A3	IE09 F3
3E06 C4	IE10 F3
3E07 C4	IE11 F3
3E08 C4	IE12 F3
3E09 C4	IE13 C3
3E10 C4	IE14 C3
3E11 C4	IE15 C3
3E12 C5	IE16 C3
3E13 B6	IE17 A10
3E14 B6	IE18 D3
3E15 B6	IE19 C6
3E16 B7	IE20 C8
3E17 B7	IE21 D6
3E18 B7	IE22 C8
3E19 C7	IE23 D8
3E20 C7	IE24 F7
3E21 D7	IE25 C7
3E22 D7	IE26 C7
3E23 D8	IE27 F7
3E24 C10	IE28 G7
3E25 C10	IE29 A10
3E26 C10	IE30 A10
3E27 D10	IE31 F12
3E28 D10	IE32 C11
3E29 D10	IE33 C11
3E30 D10	IE34 D11
3E31 F2	IE35 B8
3E32 F2	IE36 B8
3E33 F2	IE37 B8
3E34 F2	
3E35 F5	
3E36 F5	
3E37 G5	
3E38 F7	
3E39 F7	
3E41 F9	
3E42 F9	
3E43 G9	
3E44 F11	
3E45 F11	
3E46 G11	
3E49 G6	
3E50 C3	
3E51 C3	
3E52 C4	
3E53 D3	
3E54 D3	
3E55 D4	
4E03 C7	
4E10 E3	
4E11 G4	
4E12 D5	
4E13 D5	
4E14 D5	
5E00 B5	
5E01 B8	
5E02 A10	
5E03 E4	
6E00 F3	

SSB: Digital I/O

B14 DIGITAL IO

B13 TO MUX-SYNC INTERFACE

B2 To HERCULES

B8 TO SCALER

B7 TO SCALER

RGB/COMPONENT VIDEO INPUT

1F00-4 YKF45-7005

PC AUDIO IN

1F01 YKB21-5101A

DVI INPUT

DVI CONNECTOR

ROW_A 1F00-1 YKF45-7005

ROW_B 1F00-2 YKF45-7005

ROW_C 1F00-3 YKF45-7005

7F03 M24C02-WMN6 (256x8) EEPROM

5F00 5F01 5F02

2F00 RES 2F02 RES 2F05 RES

3F00 75R 3F09 75R 3F11 75R

3F10 1R0

2F04 100p

IF11 RINAIPr

IF17 GINAIYINA

IF20 BINAIPb

H_PC

V_PC

DDC_5V

2F07 100n

3F16 10K 3F17 10K 3F18 10K

IF00

SCL_DVI SDA_DVI

3F28 100R 3F29 100R

3F19 1R0

2F08 330p 2F09 330p 2F10 100p

RX2-IN RX2+IN

RX1-IN RX1+IN

RX0-IN RX0+IN

RXC+IN RXC-IN

BAS316 6F00 +5VSWI

DVI_5V 3F20 100R IF01

3F21 1K0

6F01 BAS316 3F22 10K 3F23 1K0

5F03 IF03 DDC_5V

IF02 IF21

HOT_PLUG

2F11 330p 2F12 330p

IF05 IF04

S001 S002

3F25 10K 3F24 10K

IF23 IF22

2F13 180p 2F14 180p

3F26 15K 3F27 15K

2F16 2u2 2F15 2u2

AudioIN2L AudioIN2R

1F00-1 D1
1F00-2 E1
1F00-3 F1
1F00-4 B1
1F01 B7
2F00 A2
2F02 B2
2F04 C3
2F05 C2
2F07 C3
2F08 E2
2F09 E2
2F10 E3
2F11 F2
2F12 F2
2F13 B9
2F14 B9
2F15 B9
2F16 B9
3F00 A2
3F09 C2
3F10 B3
3F11 C2
3F16 D4
3F17 D4
3F18 D4
3F19 E2
3F20 F2
3F21 F2
3F22 F3
3F23 F3
3F24 B8
3F25 B8
3F26 B9
3F27 B9
3F28 E2
3F29 E2
5F00 A3
5F01 B3
5F02 C3
5F03 F4
6F00 F4
6F01 F3
7F03 D2
FF00 E1
FF01 E1
FF02 E1
FF03 E1
FF04 E1
FF05 E1
FF06 F1
FF07 F1
FF08 F1
FF09 F1
FF10 G1
FF11 G1
FF12 G1
FF13 G1
IF00 D3
IF01 F2
IF02 F4
IF03 F5
IF04 B8
IF05 B8
IF06 F1
IF07 F1
IF08 G1
IF11 A6
IF12 B1
IF13 B1
IF14 B2
IF15 B2
IF17 B6
IF20 C6
IF21 F5
IF22 B9
IF23 B9
S001 B8
S002 B8

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SSB: SCART Analogue I/O

B15 SCART ANALOGUE IO

B15

SCART 1

SCART 2

RESERVED FOR DMMI

RESERVED FOR DMMI

RESERVED FOR DMMI

DMMI CONNECTOR

TO HERCULES B2

TO MUX-SYNC INTF B13

FROM SIDE CONNECTOR B17

FROM SCALER B7

TO HERCULES B2

HR-AR0761S-2

AF732L-N2G1A

1G01-1 B2
1G01-2 E2
1G02-1 G2
1G02-2 J2
1G03 G16
2G01 A3
2G02 B3
2G03 B3
2G04 B3
2G05 A4
2G06 B4
2G07 A5
2G08 B5
2G09 B4
2G10 C4
2G11 B5
2G12 C5
2G16 E5
2G17 E5
2G18 G5
2G19 G5
2G20 G5
2G21 G5
2G22 H5
2G23 H5
2G24 H5
2G25 H5
2G26 I5
2G28 K4
2G29 B11
2G30 B12
2G31 C11
2G32 C11
2G33 C13
2G34 E11
2G35 E12
2G36 F10
2G37 F10
2G38 F12
2G39 E14
2G40 F14
2G41 F14
2G43 J14
2G45 J15
2G46 J15
2G47 J11
2G48 G4
2G49 G4
2G50 H4
2G51 H4
2G52 F3
2G53 K3
2G55 I9
2G56 J9
2G63 B11
2G64 C10
2G65 K9
2G66 I10
3G00 A3
3G01 B4
3G02 A5
3G03 B5
3G04 B4
3G05 C4
3G06 B5
3G07 C5
3G08 J5
3G09 I4
3G12 C3
3G13 D3
3G14 D3
3G15 C3
3G16 C3
3G17 D3
3G26 E3
3G27 E4
3G28 E4
3G29 E4
3G30 E3
3G31 F4
3G33 F4
3G34 E5
3G37 G4
3G38 G4
3G39 G5
3G40 G5
3G41 H4
3G42 H4
3G43 H5
3G44 H5
3G45 I3
3G46 I4
3G47 I6
3G48 I6
3G51 I4
3G52 I5
3G53 J4
3G54 J4
3G55 J5
3G56 J5
3G57 K4
3G58 K4
3G59 J5
3G60 K5
3G63 B10
3G64 C10
3G65 C11
3G66 C11
3G67 C10
3G68 C11
3G69 B13
3G70 C13
3G71 C14
3G72 E11
3G73 E11
3G74 E11
3G75 E10
3G76 F10
3G77 F11
3G78 F11
3G79 E13
3G80 E13
3G81 E13
3G82 E14
3G83 E13
3G84 F13
3G85 F13
3G86 F13
3G87 F14
3G88 H12
3G89 F13
3G90 H12
3G91 H13
3G92 K10
3G93 K10
3G94 I10
3G95 I10
3G96 I9
3G99 I9
3S00 J9
3S01 H10
3S03 J9
4G00 B3
4G01 B3
4G05 H4
4G06 H4
4G09 C11
4G10 C11
4G11 D12
4G12 D12
4G13 D12
4G14 E10
4G15 F10
4G16 G12
4G17 G12
4G18 J6
4G19 H10
4G20 K9
4G21 I10
4G22 L10
4G26 E5
5G00 E5
5G01 D10
5G02 J11
6G00 F3
6G01 K3
6G02 B13
6G03 C3
6G04 C3
6G05 B2
6G06 B2
6G07 G2
6G08 G3
6G09 G2
6G10 G3
7G03 E4
7G05 J4
7G07 B12
7G08 B14
7G09 E12
7G10 J11
FG00 A3
FG01 B3
FG02 B2
FG03 B3
FG04 B3
FG05 C3
FG06 C3
FG07 D3
FG08 E3
FG09 E3
FG10 D2
FG11 E3
FG12 F3
FG13 F7
FG14 G3
FG15 G3
FG16 G2
FG17 H3
FG18 H3
FG19 H2
FG20 I3
FG21 I3
FG22 J3
FG23 K3
FG24 C2
FG25 C2
FG26 H2
FG27 H2
FG28 H2
FG30 I2
FG32 G15
FG33 G15
FG34 G15
FG35 G15
FG36 H15
FG37 H15
FG38 H15
FG39 H15
FG40 H16
FG41 H15
FG42 H15
FG43 H15
FG44 H15
FG45 I15
FG47 I15
FG48 I15
FG49 I15
FG50 I15
FG51 I15
FG56 I15
IG00 A4
IG01 B4
IG02 A6
IG03 B6
IG04 B4
IG05 C4
IG06 C7
IG07 C7
IG08 D7
IG09 E7
IG10 E7
IG11 E4
IG12 E5
IG13 E7
IG14 G5
IG15 G5
IG16 G6
IG17 G6
IG18 H5
IG19 H5
IG20 H6
IG21 H6
IG23 I6
IG24 J4
IG25 J5
IG26 J6
IG27 K6
IG28 D11
IG29 F11
IG30 F13
IG40 I5
IG42 I6
IG46 J11
IG47 K10
IG49 B8
IG50 B12
IG52 C12
IG53 C12
IG54 C12
IG55 C12
IG56 D11
IG57 B13
IG58 B14
IG59 D15
IG60 E11
IG61 F11
IG62 F11
IG63 F11
IG64 E12

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SSB: Top Connectors

B16 TOP CONNECTORS

FOR UFD ONLY

UFD CONTROL

(1M03) 1J00

IJ01 POR (NC)
IJ02 LAMP_ON_OFF_1
IJ03
IJ04
TEMP_SENSOR (NC)
IJ05 STANDBY_1
IJ06 NC
IJ07 POWER_UP_OK_1

5J05 RES
FAN_SPEED
PROTECT_AUD
3J06 RES
POWER_UP_OK
IJ12

4J02 RES
2J16 RES
2J33 RES
2J20 RES
2J34 RES

FROM SCALER INTERFACE B6
FROM SCALER B8
FROM SCALER B7

PROTECT_AUD

FROM AUDIO B5

AUDIO-L
AUDIO-R
5J01
5J02
FJ10
FJ11
FJ12
AUDIO-SW (NC)
3V3 SOUND_ENABLE_1
3V3 POR_AUDIO
FJ13
FJ14

(1M52) 1J04
B9B-PH-K-S(LF)

2J26 100p
2J27 100p
2J28 100p
2J29 100p
2J36 1n0

TO/FROM 1002 OF CLASS-D AUDIO AMPLIFIER C

(1M46) 1J01

UFD SUPPLY

FJ00
FJ01 (NC)
FJ02
5V(NC)
FJ03
FJ04
+33V_TUN(NC)
FJ05 NC
4J01

1J07 +12V_UFD
3A T
1J08 +5V_UFD
5J04
+5V
2J31 1n0

TO DC-DC CONVERTER B6

FROM EPLD B20

B_LT_PWM
G_LT_PWM
R_LT_PWM
B_RT_PWM
G_RT_PWM
R_RT_PWM

FJ15
FJ16
FJ17
FJ18
FJ19
FJ20

1J05
B7B-PH-K-S(LF)
AMBIENT LIGHT (TOP)

2J04 100p
2J05 100p
2J06 100p
2J07 100p
2J08 100p
2J09 100p

B_LB_PWM
G_LB_PWM
R_LB_PWM
B_RB_PWM
G_RB_PWM
R_RB_PWM

FJ21
FJ22
FJ23
FJ24
FJ25
FJ26

1J06
B7B-PH-K-S(LF)
AMBIENT LIGHT (BOTTOM)

2J10 100p
2J11 100p
2J12 100p
2J13 100p
2J14 100p
2J15 100p

RESERVED

TO/FROM PSU (SUPPLY FOR LCD)

1J02
B12P-PH-K-S(LF)

VP
GND_AUDIO
FJ06
3V2 +3V3STBY
FJ07
IJ08
IJ09
IJ10
IJ11
5J03 POWER_DOWN
+12VUNREG
11V6

3J05 68R STANDBY 3V1
3J03 68R BACKLIGHT_CTRL
3J04 68R LAMP_ON_OFF 3V2
IJ13

FROM SCALER INTERFACE B9
FROM SCALER B8

2J30 1n0
2J02 1n0
2J35 1n0
2J18 100p
2J19 100p
2J17 1n0
2J22 100p
2J23 100p
2J21 100p

TO/FROM 1003 OF CLASS-D AUDIO AMP (+18V / +24V) C

1J03
B3B-PH-K-S(LF)
FJ08 VP
FJ09
GND_AUDIO
2J03 1n0
GND_AUDIO

3139 123 6141.1

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1J00 A1	FJ25 E7
1J01 C1	FJ26 E7
1J02 D1	IJ01 B1
1J03 F1	IJ02 B1
1J04 B8	IJ03 B1
1J05 C8	IJ04 B1
1J06 D8	IJ05 B1
1J07 C2	IJ06 B1
1J08 C2	IJ07 B1
2J02 F2	IJ08 E2
2J03 F2	IJ09 E2
2J04 D6	IJ10 E2
2J05 D7	IJ11 E2
2J06 D7	IJ12 B4
2J07 D7	IJ13 E4
2J08 D7	
2J09 D7	
2J10 E6	
2J11 E7	
2J12 E7	
2J13 E7	
2J14 E7	
2J15 E7	
2J16 C2	
2J17 F3	
2J18 F2	
2J19 F3	
2J20 C3	
2J21 F3	
2J22 F3	
2J23 F3	
2J26 C6	
2J27 C7	
2J28 C7	
2J29 C7	
2J30 F2	
2J31 D2	
2J33 C3	
2J34 C3	
2J35 F2	
2J36 C7	
3J03 E3	
3J04 E3	
3J05 E3	
3J06 B3	
4J01 D2	
4J02 C2	
5J01 B7	
5J02 B7	
5J03 E2	
5J04 C2	
5J05 B3	
FJ00 C1	
FJ01 C1	
FJ02 C1	
FJ03 C1	
FJ04 C1	
FJ05 D1	
FJ06 E2	
FJ07 E2	
FJ08 F2	
FJ09 F2	
FJ10 B7	
FJ11 B8	
FJ12 B7	
FJ13 B7	
FJ14 B7	
FJ15 C7	
FJ16 C7	
FJ17 C7	
FJ18 D7	
FJ19 D7	
FJ20 D7	
FJ21 E7	
FJ22 E7	
FJ23 E7	
FJ24 E7	

SSB: Side Connectors

B17 SIDE CONNECTORS

B17

FOR DISC/ ARCH CABINET
RESERVED
1K03
+3V3STBY_1
PC-TV-LED_1
LED_SEL_1
4K06 +3V3STBY_1
4K07 RES
+5VSW_1
LIGHT_SENSOR_1
IR_1
KEYBOARD
ITV_IR_SW_RESET

B2
B3 B6
+3V3STBY
LED_SEL
PC-TV-LED
IR
LIGHT_SENSOR
4K01 RES
4K03 RES
4K04 IK00 PC-TV-LED_1
4K05 IK01 LED_SEL_1
IK02 IR_1
IK03 LIGHT_SENSOR_1
IK16
3K11 68R
3K12 68R
3K13 68R
5K00 1u0
5K02 1u0
2K01 1n0
2K00 1n0
2K21 100p
2K22 100p
2K23 100p
2K24 100p
2K25 100p
2K26 100p
2K27 100p
2K28 100p

J
TO/FROM 1540 OF IR/ LED
1K00 (1M21)
B6B-PH-K
FK11

B15/B23
3K00 100R 2K02 10p 2K03 10p FRONT_Y_CVBS_IN
3K01 100R 2K04 10p 2K05 10p FRONT_C_IN
3K02 10K 2K06 100p IK17 2K08 2u2 2K07 100p 3K03 15K FRONT_L_IN
5K01 1u0 2K19 1n0 2K20 1n0 +5VSW
3K05 10K 2K10 100p IK18 2K12 2u2 2K11 100p 3K06 15K FRONT_R_IN
* 3K07 39R * 2K13 100p * 2K14 100p HP_LOUT
3K08 68R 2K15 100p HP_DET_R_DC
* 3K09 39R * 2K16 100p * 2K17 100p HP_ROUT
4K02 RES

*	UFD
2K13	10p
2K14	10p
2K16	10p
2K17	10p
3K07	10R
3K09	10R

B23 / B15 / B5

B2
KEYBOARD

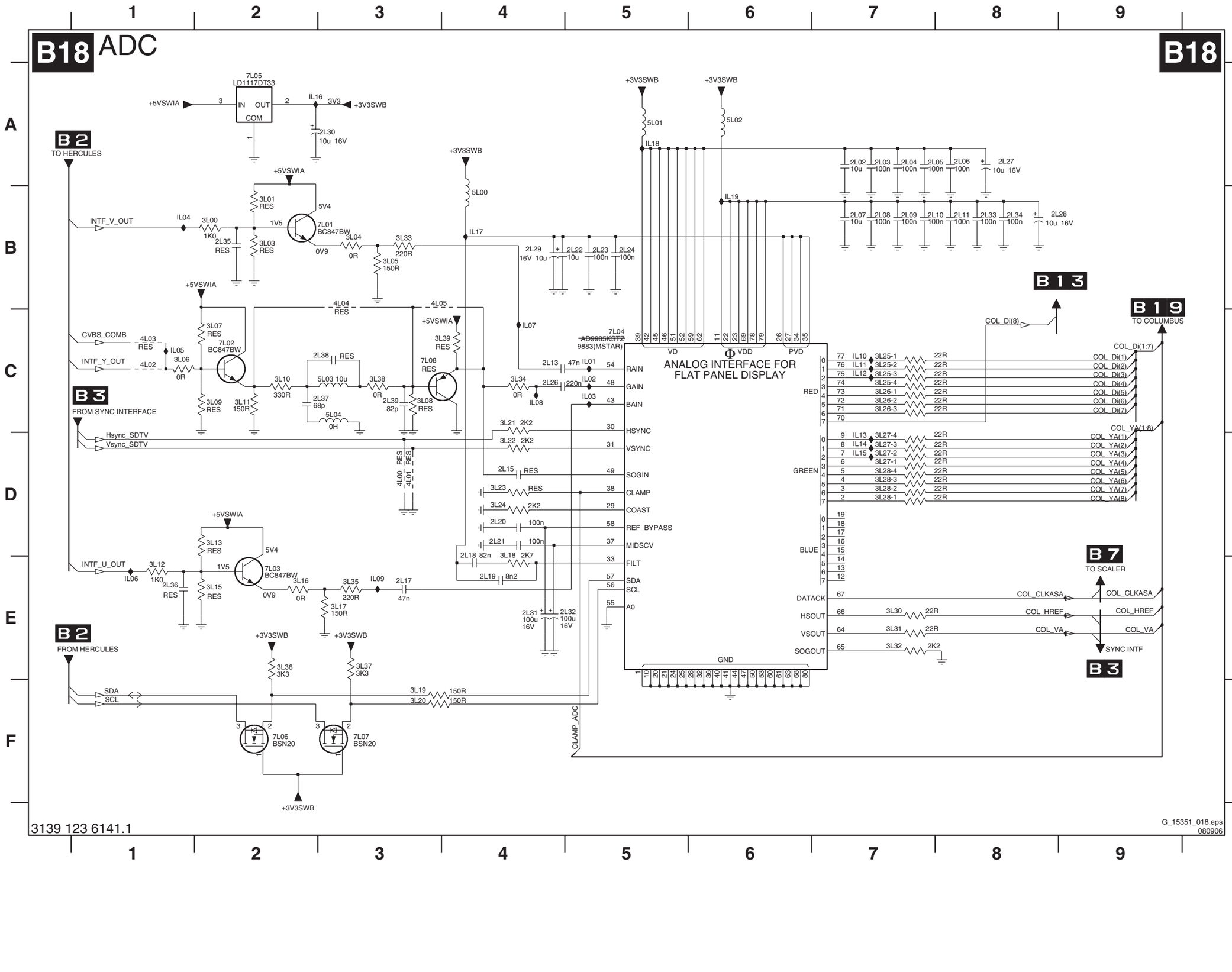
D
TO/FROM 1304 OF SIDE I/O
1K01 (1M06)
RES 1K04
FK00 FRONT_Y_CVBS_IN_1
FK01 FRONT_C_IN_1
FK02 FRONT_L_IN_1
FK03 +5VSW_1 3V3
FK04 FRONT_R_IN_1
FK10
FK05 HP_LOUT_1
FK06 HP_DET_R_DC_1 3V3
FK07 HP_ROUT_1

E
TOP/SIDE KEYBOARD
1K02 (1M01)
FK08
FK09
B3B-PH-K-S(LF)
2K18 100p

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1K00 A9
1K01 D1
1K02 E9
1K03 A1
1K04 D1
2K00 B7
2K01 B6
2K02 C3
2K03 C4
2K04 D3
2K05 D4
2K06 D3
2K07 D4
2K08 D4
2K10 E3
2K11 E4
2K12 E4
2K13 F3
2K14 F4
2K15 F3
2K16 F3
2K17 F4
2K18 E8
2K19 E3
2K20 E3
2K21 B6
2K22 B7
2K23 B7
2K24 B7
2K25 B7
2K26 B8
2K27 B8
2K28 B8
3K00 C3
3K01 C3
3K02 D3
3K03 D4
3K05 E3
3K06 E4
3K07 E3
3K08 F3
3K09 F3
3K11 A7
3K12 A7
3K13 B7
4K01 A8
4K02 F2
4K03 A8
4K04 A8
4K05 A8
4K06 B2
4K07 B2
5K00 A7
5K01 D3
5K02 A7
FK00 E1
FK01 E1
FK02 E1
FK03 E1
FK04 E1
FK05 E1
FK06 E1
FK07 E1
FK08 E8
FK09 E8
FK10 E1
FK11 B9
IK00 A8
IK01 A8
IK02 A8
IK03 B8
IK16 A7
IK17 D4
IK18 E4

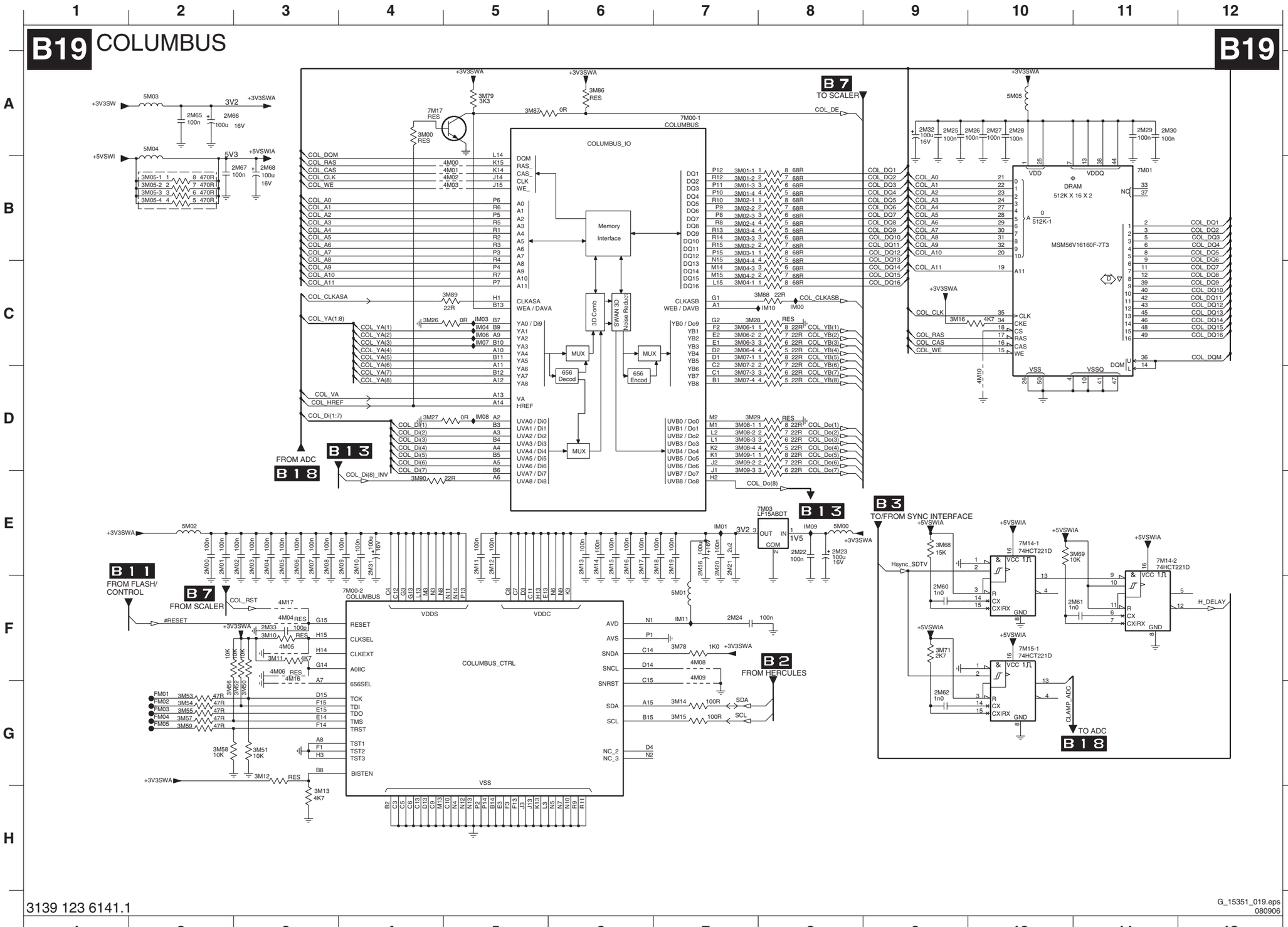
SSB: ADC



2L02 A7 3L36 E2
2L03 A7 3L37 E3
2L04 A7 3L38 C3
2L05 A8 3L39 C4
2L06 A8 4L00 D3
2L07 B7 4L01 D3
2L08 B7 4L02 C1
2L09 B7 4L03 C1
2L10 B8 4L04 B3
2L11 B8 4L05 B3
2L13 C4 5L00 B4
2L15 D4 5L01 A5
2L17 E3 5L02 A6
2L18 E4 5L03 C3
2L19 E4 5L04 C3
2L20 D4 7L01 B2
2L21 D4 7L02 C2
2L22 B5 7L03 E2
2L23 B5 7L04 C5
2L24 B5 7L05 A2
2L26 C4 7L06 F2
2L27 A8 7L07 F3
2L28 B9 7L08 C3
2L29 B4 IL01 C5
2L30 A3 IL02 C5
2L31 E4 IL03 C5
2L32 E5 IL04 B1
2L33 B8 IL05 C1
2L34 B8 IL06 E1
2L35 B2 IL07 C4
2L36 E1 IL08 C4
2L37 C3 IL09 E3
2L38 C3 IL10 C7
2L39 C3 IL11 C7
3L00 B2 IL12 C7
3L01 B2 IL13 D7
3L03 B2 IL14 D7
3L04 B3 IL15 D7
3L05 B3 IL16 A2
3L06 C1 IL17 B4
3L07 C2 IL18 A5
3L08 C3 IL19 B6
3L09 C2
3L10 C2
3L11 C2
3L12 E1
3L13 D2
3L15 E2
3L16 E2
3L17 E3
3L18 E4
3L19 F3
3L20 F3
3L21 C4
3L22 D4
3L23 D4
3L24 D4
3L25-1 C7
3L25-2 C7
3L25-3 C7
3L25-4 C7
3L26-1 C7
3L26-2 C7
3L26-3 C7
3L27-1 D7
3L27-2 D7
3L27-3 D7
3L27-4 D7
3L28-1 D7
3L28-2 D7
3L28-3 D7
3L28-4 D7
3L30 E7
3L31 E7
3L32 E7
3L33 B3
3L34 C4
3L35 E3

SSB: Columbus

B19 COLUMBUS



2M00 E2	3M71 F9
2M01 E2	3M78 F7
2M02 E3	3M79 A5
2M03 E3	3M86 A6
2M04 E3	3M87 A5
2M05 E3	3M88 C8
2M06 E3	3M89 C5
2M07 E3	3M90 E4
2M08 E3	4M00 B5
2M09 E4	4M01 B5
2M10 E4	4M02 B5
2M11 E5	4M03 B5
2M12 E5	4M04 F3
2M13 E6	4M05 F3
2M14 E6	4M06 F3
2M15 E6	4M08 F7
2M16 E6	4M09 F7
2M17 E6	4M10 D10
2M18 E7	4M16 F3
2M19 E7	4M17 F3
2M20 E7	5M00 E8
2M21 E7	5M01 F7
2M22 E8	5M02 E2
2M23 E8	5M03 A2
2M24 F7	5M04 A2
2M25 A9	5M05 A10
2M26 A10	7M00-1 A7
2M27 A10	7M00-2 F4
2M28 A10	7M01 B11
2M29 A11	7M03 E8
2M30 A11	7M14-1 E10
2M31 E4	7M14-2 E11
2M32 A9	7M15-1 F10
2M33 F3	7M17 A4
2M56 E7	FM01 G2
2M60 F9	FM02 G2
2M61 F11	FM03 G2
2M62 G9	FM04 G2
2M65 A2	FM05 G2
2M66 A2	IM00 C8
2M67 B3	IM01 E7
2M68 B3	IM03 C5
3M00 A4	IM04 C5
3M01-1 B7	IM06 C5
3M01-2 B7	IM07 C5
3M01-3 B7	IM08 D5
3M01-4 B7	IM09 E8
3M02-1 B7	IM10 C8
3M02-2 B7	IM11 F7
3M02-3 B7	
3M02-4 B7	
3M03-1 B7	
3M03-2 B7	
3M03-3 B7	
3M03-4 B7	
3M04-1 C7	
3M04-2 C7	
3M04-3 C7	
3M04-4 C7	
3M05 B2	
3M05 B2	
3M05 B2	
3M05 B2	
3M06-1 C7	
3M06-2 C7	
3M06-3 C7	
3M06-4 C7	
3M07-1 C7	
3M07-2 D7	
3M07-3 D7	
3M07-4 D7	
3M08-1 D7	
3M08-2 D7	
3M08-3 D7	
3M08-4 D7	
3M09-1 D7	
3M09-2 D7	
3M09-3 E7	
3M10 F3	
3M11 F3	
3M12 G3	
3M13 H3	
3M14 G7	
3M15 G7	
3M16 C9	
3M26 C4	
3M27 D4	
3M28 C7	
3M29 D7	
3M50 G3	
3M51 G3	
3M52 G3	
3M53 G2	
3M54 G2	
3M55 G2	
3M56 G2	
3M57 G2	
3M58 G2	
3M59 G2	
3M68 E9	
3M69 E11	

SSB: EPLD

B20 EPLD

B20

+3V3-IO
2N01 100n
7N01 EPCS4SI8
VCC
CS
SCD
DATA
DCLK
ASDI
GND
IN01
IN02
IN03
IN04
3N01 10K
3N02 10K
3N03 10K
3N04 10K
3N05 10K
3N06 10K
7N02-1 EP1C12F256C8
CONTROL
DATA0
DCLK
CSO
ASDO
MSEL
CONF_DONE
STATUS
CONFIG
CE
SCAN
TDI
TDO
TCK
TMS
CEO
CLK
3N12 10K
3N13 10K
3N14 10K
3N15 47R
3N16 47R
3N17 47R
3N18 47R
FN04
FN05
FN06
FN07
FN08
FN09
FN10
5N01
FOR DEBUGGING
1N01 RES
2N11 RES
2N12 RES
2N13 RES
2N14 RES
2N15 100p
FN01
IN05
IN10
3N09 1K0
IN11
FN02
CLK_REF
3N19 10K
2N02 100n
3N07 33K
2N03 1u0
3N08 10K
IN08
3N10 33K
IN09
2N04 1n0
7N03-1 BC847BS
7N03-2 BC847BS
IN06
3N11 47R
IN12
FN03
3N20 47R
5N05
1N05 14M31818
OC
2N10 100n
B21
TO EPLD
LVDS IN
+3V3SW
5N02
5N03
5N04
2N05 100n
2N06 100n
IN14
IN13
2N07 100n
2N08 100n
2N09 100n
3N26 4K7
IN07
3N27 47R
7N04 THC63LVDF84B
LVDSVCC
PLLVCC
VCC
LVDSGND
GND
PLLGND
LCD PANEL INTERFACE RECEIVER
RA+
RA-
RB+
RB-
RC+
RC-
RCLK+
RCLK-
PDWN
CLKOUT
RA
RB
RC
RD
R_IN(0)
R_IN(1)
R_IN(2)
R_IN(3)
R_IN(4)
R_IN(5)
R_IN(6)
R_IN(7)
G_IN(0)
G_IN(1)
G_IN(2)
G_IN(3)
G_IN(4)
G_IN(5)
G_IN(6)
G_IN(7)
B_IN(0)
B_IN(1)
B_IN(2)
B_IN(3)
B_IN(4)
B_IN(5)
B_IN(6)
B_IN(7)
HS_IN
VS_IN
DE_IN
PARITY_IN
FN11
FN12
FN13
FN14
FN15
FN16
FN17
FN25
7N02-2 EP1C12F256C8
BANK 1
IO_40
IO_39
IO_38
IO_37
IO_36
IO_35
IO_34
IO_33
IO_32
IO_31
IO_30
IO_29
IO_28
IO_27
IO_26
IO_25
IO_24
IO_23
IO_22
IO_21
IO_20
IO_19
IO_18
IO_17
IO_16
IO_15
IO_14
IO_13
IO_12
IO_11
IO_10
IO_9
IO_8
IO_7
IO_6
IO_5
IO_4
IO_3
IO_2
IO_1
CLKUSR
INIT_DONE
B_IN(7)
B_IN(0)
G_IN(5)
R_IN(6)
B_IN(1)
PARITY_IN
DE_IN
B_IN(5)
VS_IN
B_IN(3)
HS_IN
B_IN(2)
B21
LVDS_PWR_DWN
B7
TO SCALER
SDA_IO FN18
SCL_IO FN19
4N21
4N22
3N46 100R
3N47 100R
7N02-5 EP1C12F256C8
BANK 4
CONTROL SIGNALS
+3V3SW
1N02 B4B-PH-SM4-TBT(LF)
IN15
IN16
IN17
IN18
FOR DEVELOPMENT USE ONLY
B9
TO SCALER INTERFACE
3N29 100R
BACKLIGHT_DIM
2N16 100p
B16
TO TOP CONN.
B_LT_PWM
G_LT_PWM
R_LT_PWM
B_RT_PWM
G_RT_PWM
R_RT_PWM
B_LB_PWM
G_LB_PWM
R_LB_PWM
B_RB_PWM
G_RB_PWM
R_RB_PWM
1N03
BM05B-SRSS-TBT RES
FN21
FN22
FN23
FN24
2N17 100p
2N18 100p
2N19 100p
2N20 100p
3N28 180R
6N01 TLMG3100
LED_OUT
FN20
PIXEL+_RESET
IN19
B9
TO SCALER INTERFACE
FOR NON-PIXEL+ SETS
TXB0+
TXB0-
TXB1+
TXB1-
TXB2+
TXB2-
TXB3+
TXB3-
TXBC+
TXBC-
3N21 100R
3N22 100R
3N23 100R
3N24 100R
3N25 100R
LVDSAp
LVDSAn
LVDSBp
LVDSBn
LVDSCp
LVDSCn
LVDSDp
LVDSDn
LVDSCLKp
LVDSCLKn
4N02
4N04
4N06
4N08
4N10
4N12
4N14
4N16
4N18
4N20
4N01
4N03
4N05
4N07
4N09
4N11
4N13
4N15
4N17
4N19
FN26
FN27
FN28
FN29
FN30
FN31
FN32
FN33
FN34
FN35

3139 123 6141.1

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1N01 A8	4N18 D2
1N02 D10	4N19 D2
1N03 F11	4N20 D2
1N05 D5	4N21 D8
2N01 A1	4N22 D8
2N02 C1	5N01 A7
2N03 C1	5N02 D3
2N04 C2	5N03 D4
2N05 D3	5N04 D4
2N06 D3	5N05 C5
2N07 D4	6N01 F8
2N08 D4	7N01 A2
2N09 D4	7N02-1 A4
2N10 D5	7N02-2 D6
2N11 B6	7N02-5 D9
2N12 B6	7N03-1 C2
2N13 B6	7N03-2 C1
2N14 B7	7N04 D4
2N15 B7	FN01 B3
2N16 E10	FN02 B5
2N17 G10	FN03 C5
2N18 G11	FN04 B7
2N19 G11	FN05 B7
2N20 G11	FN06 B7
3N01 B2	FN07 B7
3N02 B2	FN08 B8
3N03 B2	FN09 B7
3N04 B2	FN10 B8
3N05 B3	FN11 E5
3N06 B3	FN12 E5
3N07 C1	FN13 F5
3N08 C2	FN14 F5
3N09 B3	FN15 F5
3N10 C1	FN16 F5
3N11 C4	FN17 G5
3N12 B4	FN18 D8
3N13 B5	FN19 D8
3N14 B5	FN20 F8
3N15 B6	FN21 F10
3N16 B6	FN22 F11
3N17 B6	FN23 F11
3N18 B6	FN24 F11
3N19 C5	FN25 G3
3N20 C5	FN26 D1
3N21 E2	FN27 D1
3N22 E2	FN28 D1
3N23 F2	FN29 D1
3N24 F2	FN30 D1
3N25 F2	FN31 D2
3N26 D3	FN32 D2
3N27 D6	FN33 D2
3N28 F8	FN34 D2
3N29 E10	FN35 D2
3N30 E10	IN01 B2
3N31 E10	IN02 B2
3N32 E10	IN03 B2
3N33 E10	IN04 B2
3N34 E10	IN05 B3
3N35 E10	IN06 C2
3N36 F10	IN07 E3
3N37 F10	IN08 C1
3N38 F10	IN09 C1
3N39 F10	IN10 B3
3N40 F10	IN11 B3
3N41 F10	IN12 C4
3N42 F10	IN13 D4
3N43 F10	IN14 D4
3N44 F10	IN15 D10
3N45 F10	IN16 D10
3N46 D9	IN17 D10
3N47 D9	IN18 D10
4N01 D1	IN19 F8
4N02 D1	
4N03 D1	
4N04 D1	
4N05 D1	
4N06 D1	
4N07 D1	
4N08 D1	
4N09 D2	
4N10 D1	
4N11 D2	
4N12 D2	
4N13 D2	
4N14 D2	
4N15 D2	
4N16 D2	
4N17 D2	

SSB: EPLD

B21 EPLD

B21

EAGLE INTERFACE

7N02-3 EP1C12F256C8

BANK 2

7N02-6 EP1C12F256C8

POWER

LVDS TRANSMITTER

LVDS OUT

7N02-4 EP1C12F256C8

BANK 3

FROM EPLD B20

FROM SCALER INTERFACE B9

FOR MFD ONLY

FOR UFD ONLY

TO LCD PANEL (TIMING CONTROL)

TO PLASMA PANEL (TIMING CONTROL)

FROM DC-DC CONVERTER B2

FOR LCD ONLY B6

FI-WE31P-HFE-E1500

FI-TWE31P-VF-E1400

0-1453230-3

3139 123 6141.1

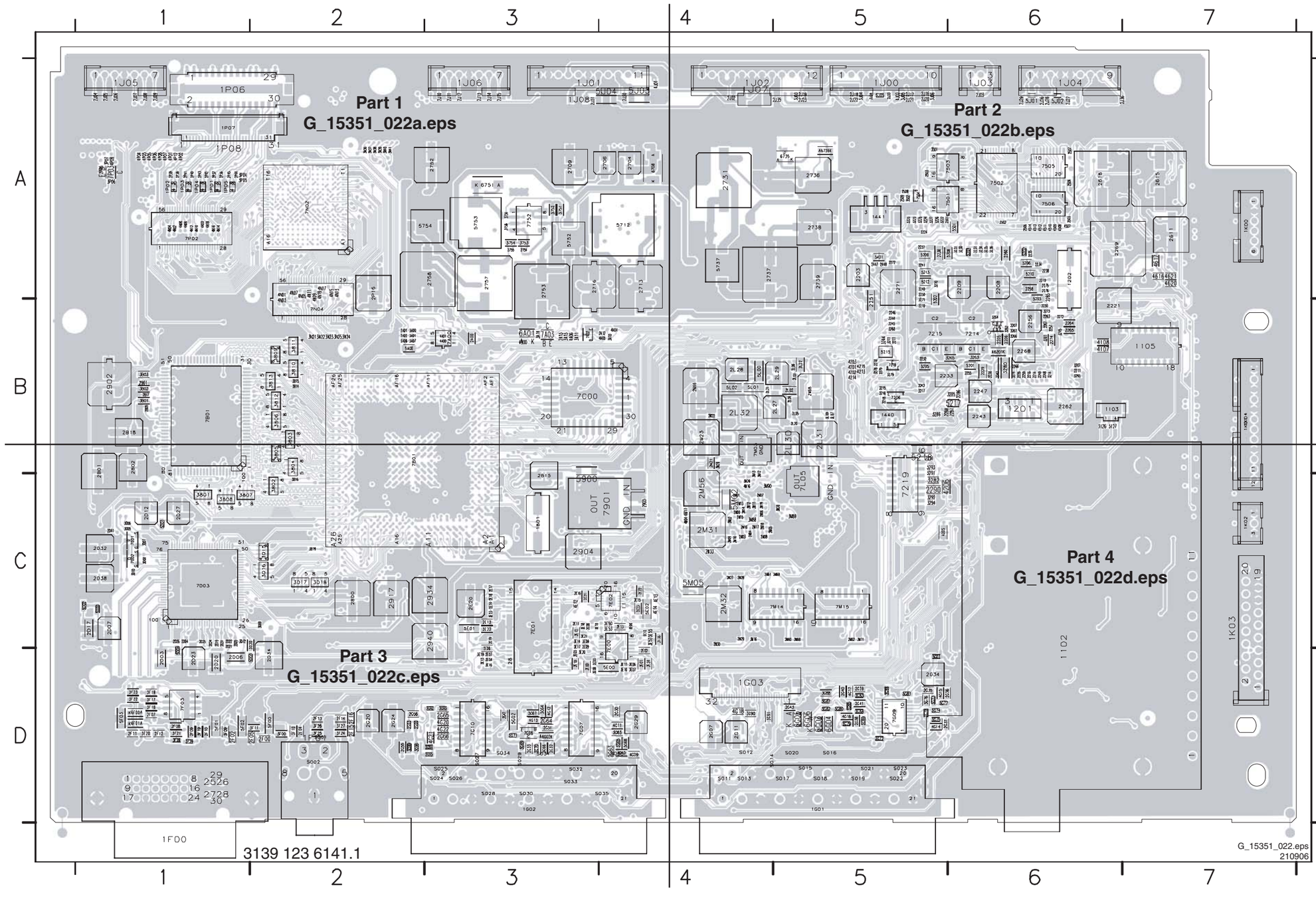
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1P03 F7
1P04 F7
1P05 G7
1P06 A11
1P07 D11
1P08 D11
2P01 B2
2P02 B2
2P03 B3
2P04 B3
2P05 B3
2P06 B3
2P07 B3
2P08 B3
2P09 B3
2P10 B4
2P11 B4
2P12 B4
2P13 B4
2P14 B4
2P15 B1
2P16 B1
2P17 B2
2P18 B2
2P19 B3
2P20 B3
2P21 B3
2P22 C2
2P23 C2
2P24 C3
2P25 C3
2P26 C3
2P27 C3
2P28 C3
2P29 C3
2P30 C3
2P31 C5
2P32 C5
2P33 D5
2P34 D5
2P35 D6
2P36 D7
2P37 D7
2P38 E7
2P39 E7
2P40 E7
2P41 F7
2P42 F7
2P43 F7
2P44 G7
2P45 G7
2P46 F9
3P01 D4
3P03 D4
3P04 D9
3P05 D9
3P06 F9
3P07 F9
4000 D9
4P01 E10
4P02 F10
4P03 E9
4P04 E9
4P05 F9
4P06 F9
4P07 F9
4P08 F9
4P09 F9
4P10 D9
4P11 E10
4P12 F10
5P01 A2
5P02 B2
5P03 C2
5P04 C5
5P05 C6
5P06 C6
7N02-3 A5
7N02-4 D2
7N02-6 A8
7P01 B1
7P02 D6
7P03 F9
FP01 A1
FP02 A4
FP03 B2
FP04 B3
FP05 C4
FP06 D4
FP07 D4
FP08 E4
FP09 E4
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FP16 D10
FP17 E10

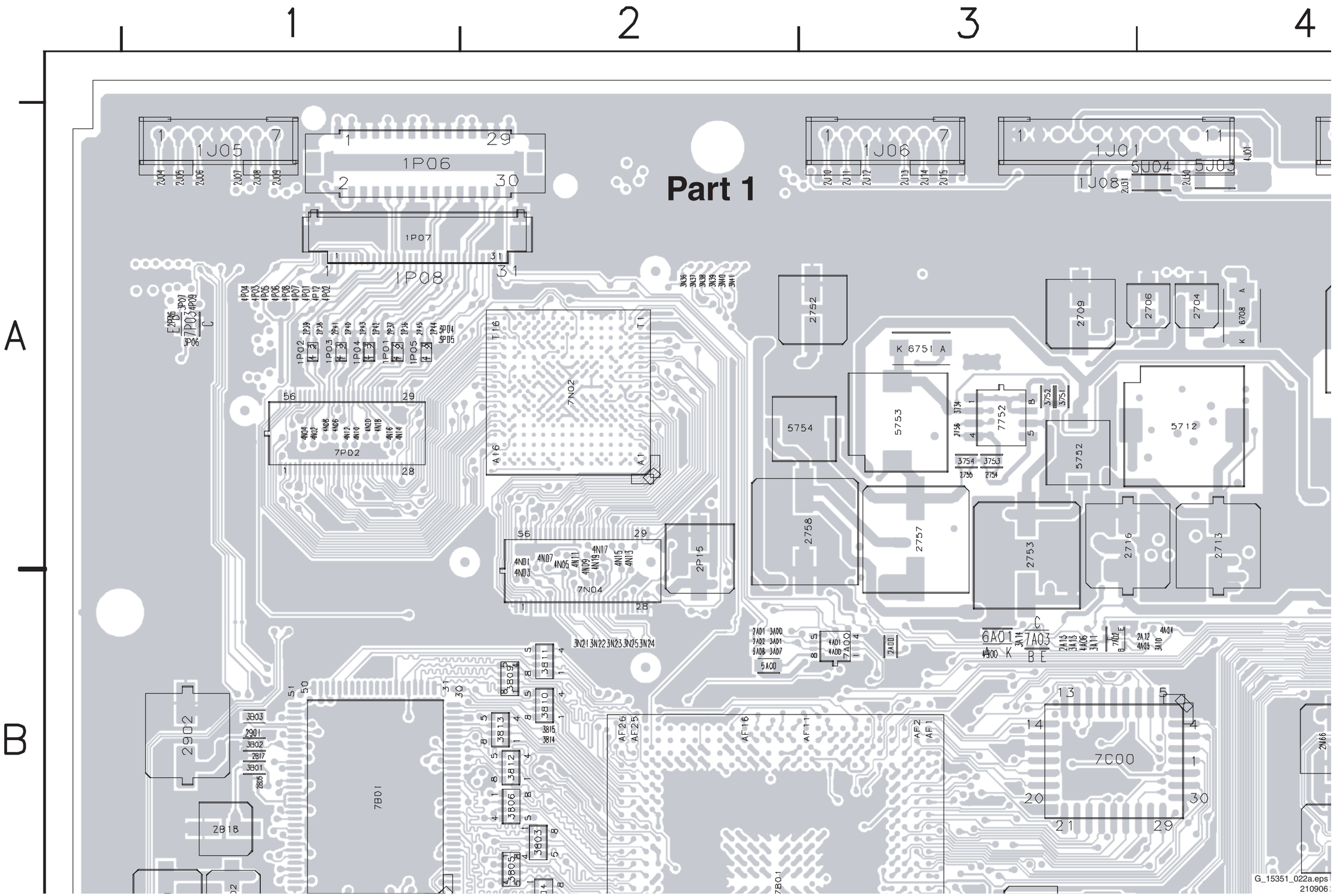
Layout Small Signal Board (Top Side Overview)

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1103 B6 1J04 A6 1P07 A1 2226 B6 2244 B5 2264 B6 2286 B6 2611 A7 2755 A3 2A12 B4 2D21 C1 2E04 D3 2E20 C3 2F12 D1 2G36 D5 2J04 A1 2J20 A5 2L04 B5 2M04 C4 2M20 B4 2M68 B5 3214 B6 3244 B5 3279 B5 3753 A3 3815 B2 3D07 C1 3E11 D4 3E55 C4 3F27 D2 3G76 D5 4G22 D3 7215 B5
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1201 B6 1J06 A3 2203 A5 2229 B6 2246 B5 2266 B6 2288 B5 2618 A6 2757 A3 2B01 B1 2D23 D1 2E06 C3 2E22 C4 2F14 D2 2G38 D5 2J06 A1 2J22 A5 2L06 B5 2M06 C4 2M22 B4 2P36 A1 3216 B5 3262 B6 3281 B6 3801 C1 3819 C2 3D09 C2 3E13 D3 3F09 D1 3F29 D1 3G78 D5 4J02 A5 7218 B5
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1J00 A5 1P03 A1 2218 B5 2240 A5 2259 B6 2277 B5 2506 A6 2739 A5 2940 C3 2D12 C1 2E00 D3 2E16 C3 2F08 D1 2G32 D3 2G65 D3 2J16 A5 2J35 A5 2M00 C4 2M16 C4 2M60 C5 2P46 A1 3234 A6 3273 B6 3502 A5 3811 B2 3B02 B1 3E07 D4 3E23 C3 3F23 D1 3G72 D5 3G88 D5 4N07 A2 7901 C4
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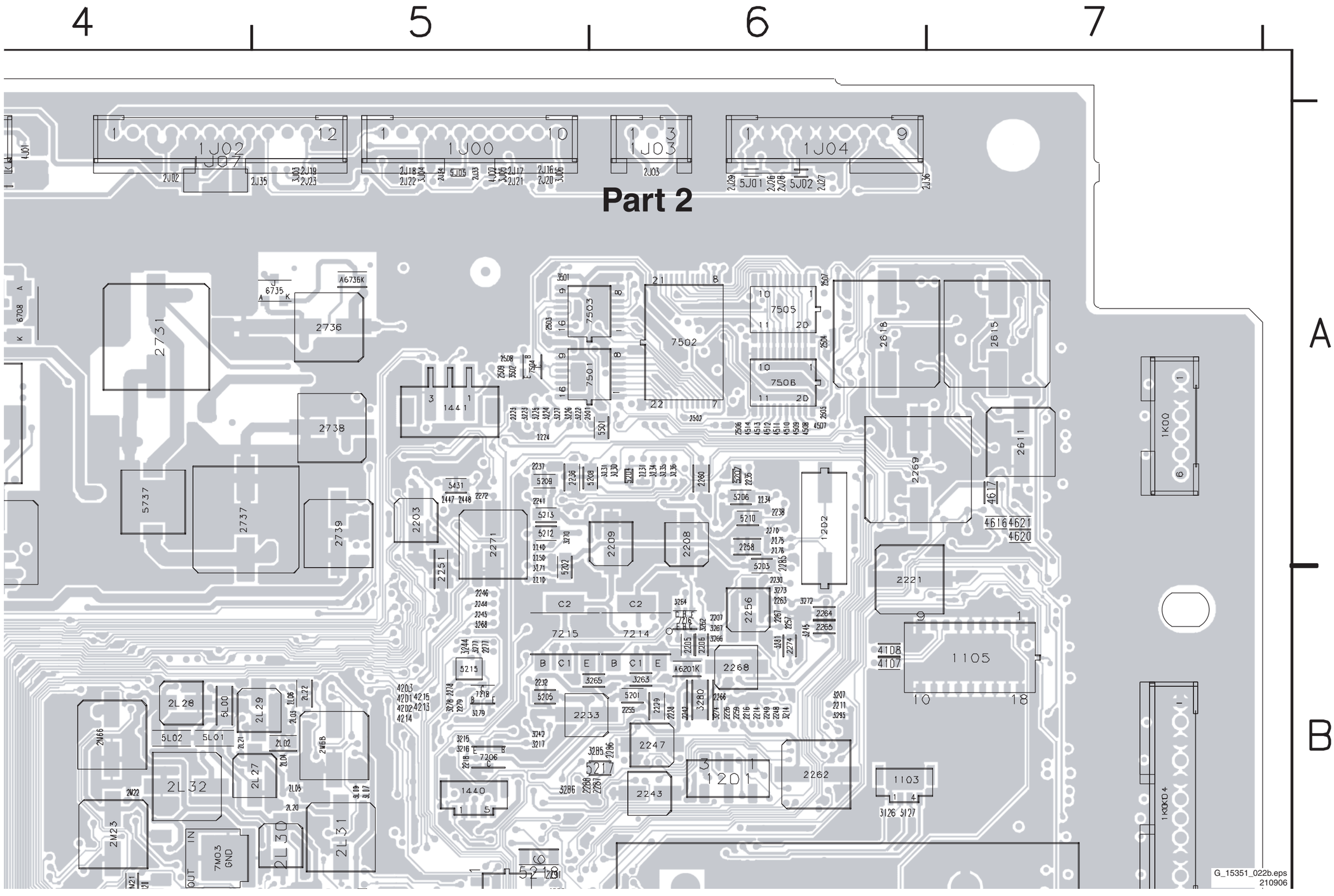
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3G95 D3 4N14 A1 7D02 C1
3G96 D2 4N15 A2 7D03 C1
3G99 D2 4N16 A1 7E00 C4
3J03 A5 4N17 A2 7E01 C3
3J04 A5 4N18 A1 7E02 C4
3J05 A5 4N19 A2 7F03 D1
3J06 A5 4N20 A1 7G07 D3
3L07 B5 4P01 A1 7G08 D3
3L09 B5 4P02 A1 7G09 D5
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3M13 C4 4P04 A1 7L05 C5
3M16 C4 4P05 A1 7M03 B4
3M26 C4 4P06 A1 7M14 C5
3M28 C5 4P07 A1 7M15 C5
3M68 C5 4P08 A1 7N02 A2
3M69 C5 4P09 A1 7N04 B2
3M71 C5 4P12 A1 7P02 A1
3M88 C4 5201 B6 7P03 A1
3M89 C5 5202 B5
3M90 C4 5203 A6
3N21 B2 5204 A6
3N22 B2 5205 B5
3N23 B2 5206 A6
3N24 B2 5207 A6
3N25 B2 5208 A6
3N36 A2 5209 A5
3N37 A2 5210 A6
3N38 A2 5212 A5
3N39 A2 5213 A5
3N40 A2 5215 B5
3N41 A2 5217 B6
3P04 A1 5218 B5
3P05 A1 5431 A5
3P06 A1 5501 A6
3P07 A1 5712 A4
3S00 D2 5737 A4
3S03 D2 5752 A3
4107 B6 5753 A3
4108 B6 5754 A3
4201 B5 5900 B3
4202 B5 5A00 B2
4203 B5 5D00 C1
4205 C5 5D01 C1
4206 C5 5D02 C1
4213 B5 5D03 D2
4214 B5 5D04 D1
4215 B5 5E00 D4
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4508 A6 5E02 C4
4509 A6 5F00 D2
4510 A6 5F01 D1
4511 A6 5F02 D1
4512 A6 5F03 D1
4513 A6 5G01 D5
4514 A6 5G02 D3
4616 A7 5J01 A6
4617 A7 5J02 A6
4620 A7 5J03 A4
4621 A7 5J04 A4
4900 B3 5J05 A5
4A00 B3 5L00 B4
4A01 B3 5L01 B4
4A04 B4 5L02 B4
4A05 B4 5M02 C4
4A06 B3 5M05 C4
4E12 C3 6201 B6
4E13 C4 6708 A4
4E14 C4 6735 A5
4G09 D4 6736 A5
4G10 D4 6751 A3
4G11 D4 6A01 B3
4G12 D3 6F00 D1
4G13 D3 6F01 D1
4G14 D5 6G02 D3
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4G17 D5 6G05 D5
4G18 D4 6G06 D5
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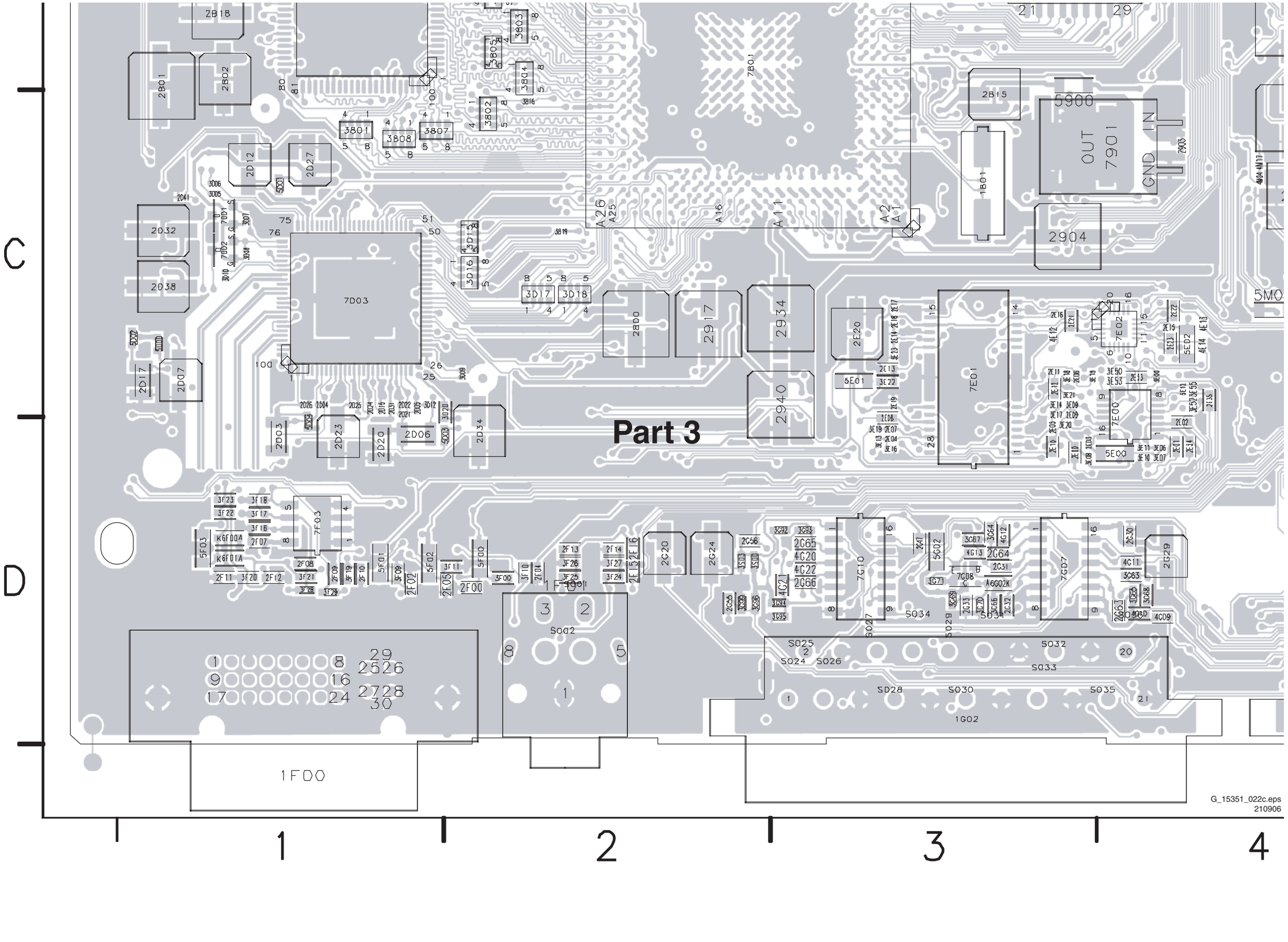
Layout Small Signal Board (Top Side Part 1)



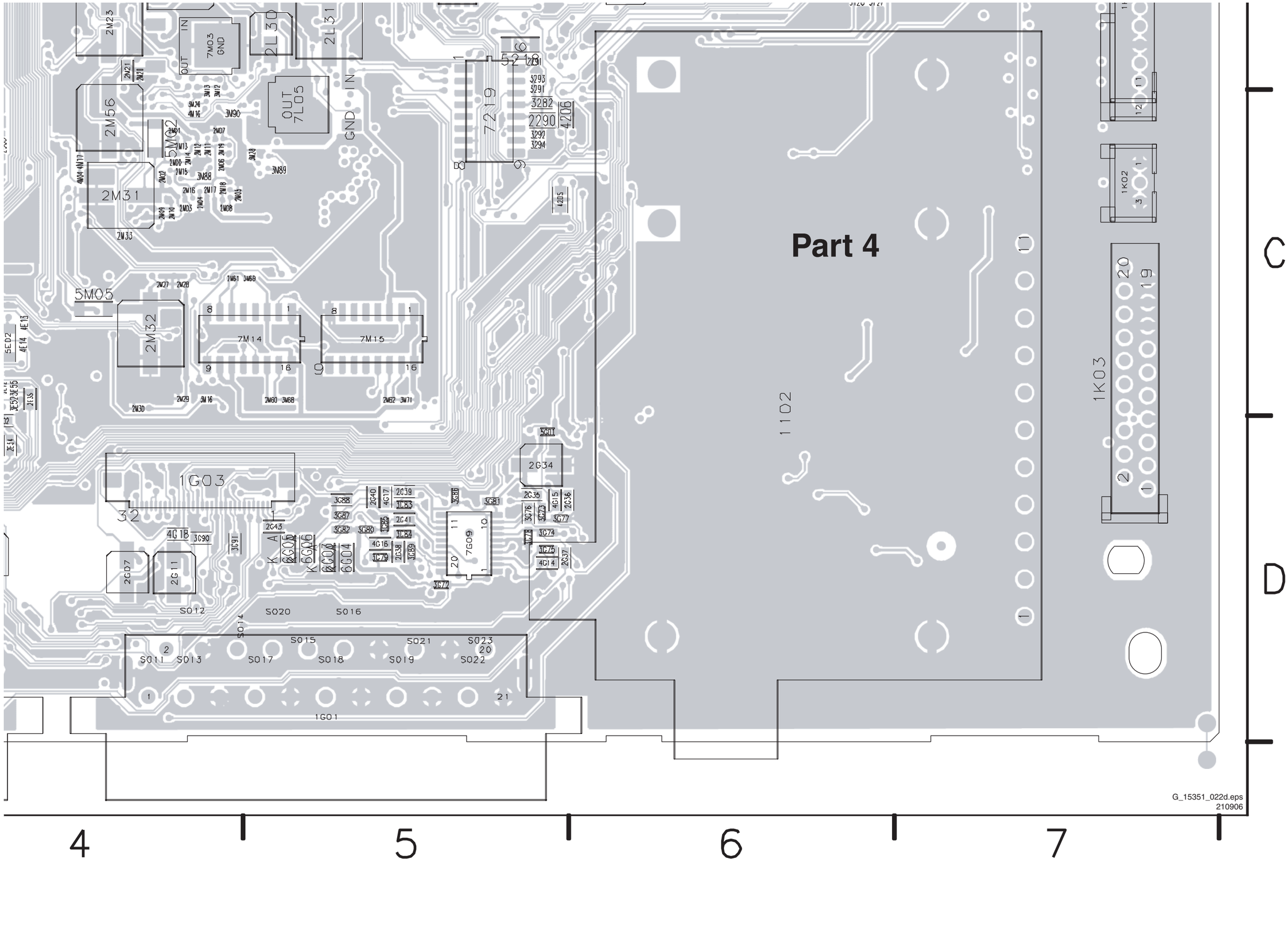
Layout Small Signal Board (Top Side Part 2)



Layout Small Signal Board (Top Side Part 3)

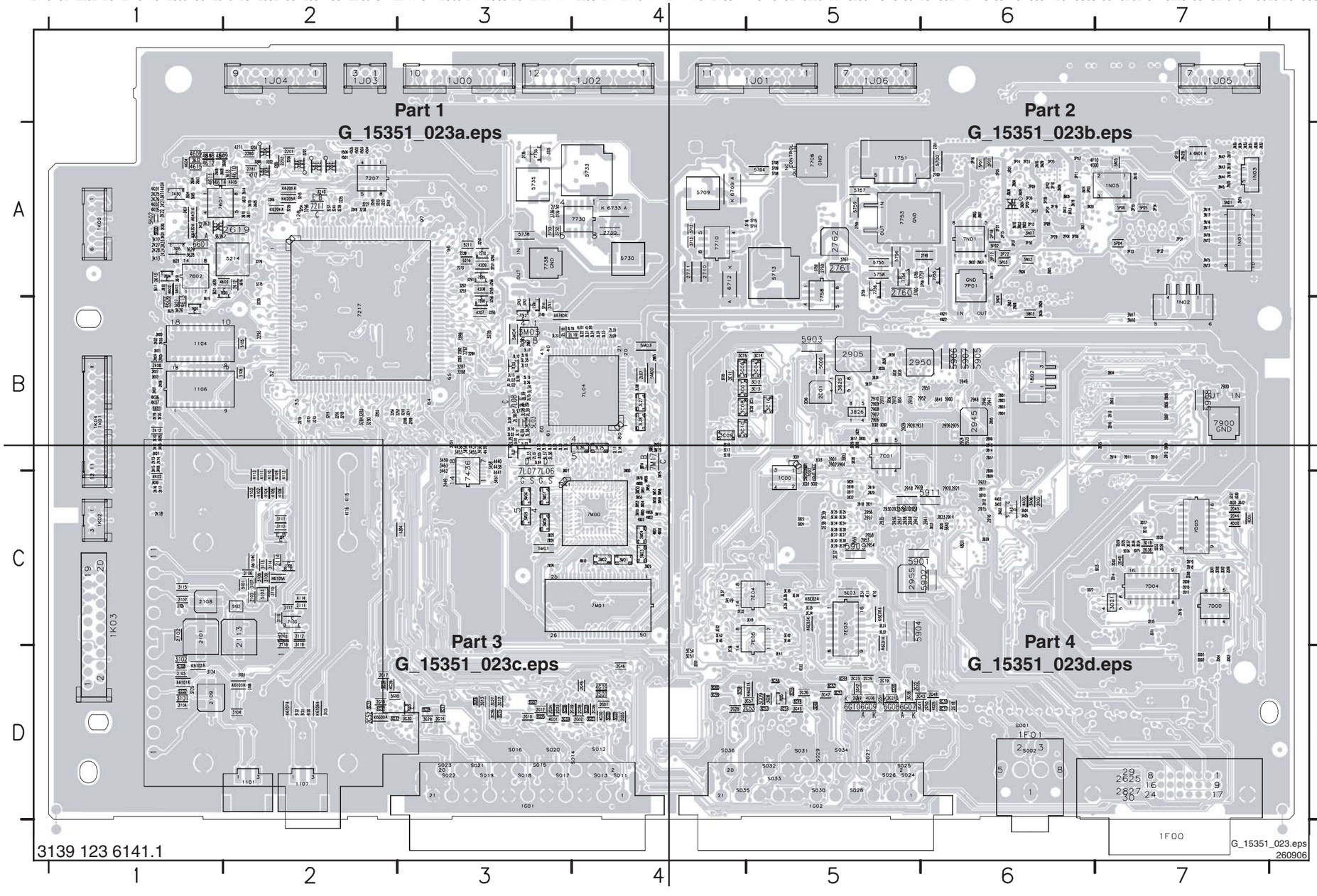


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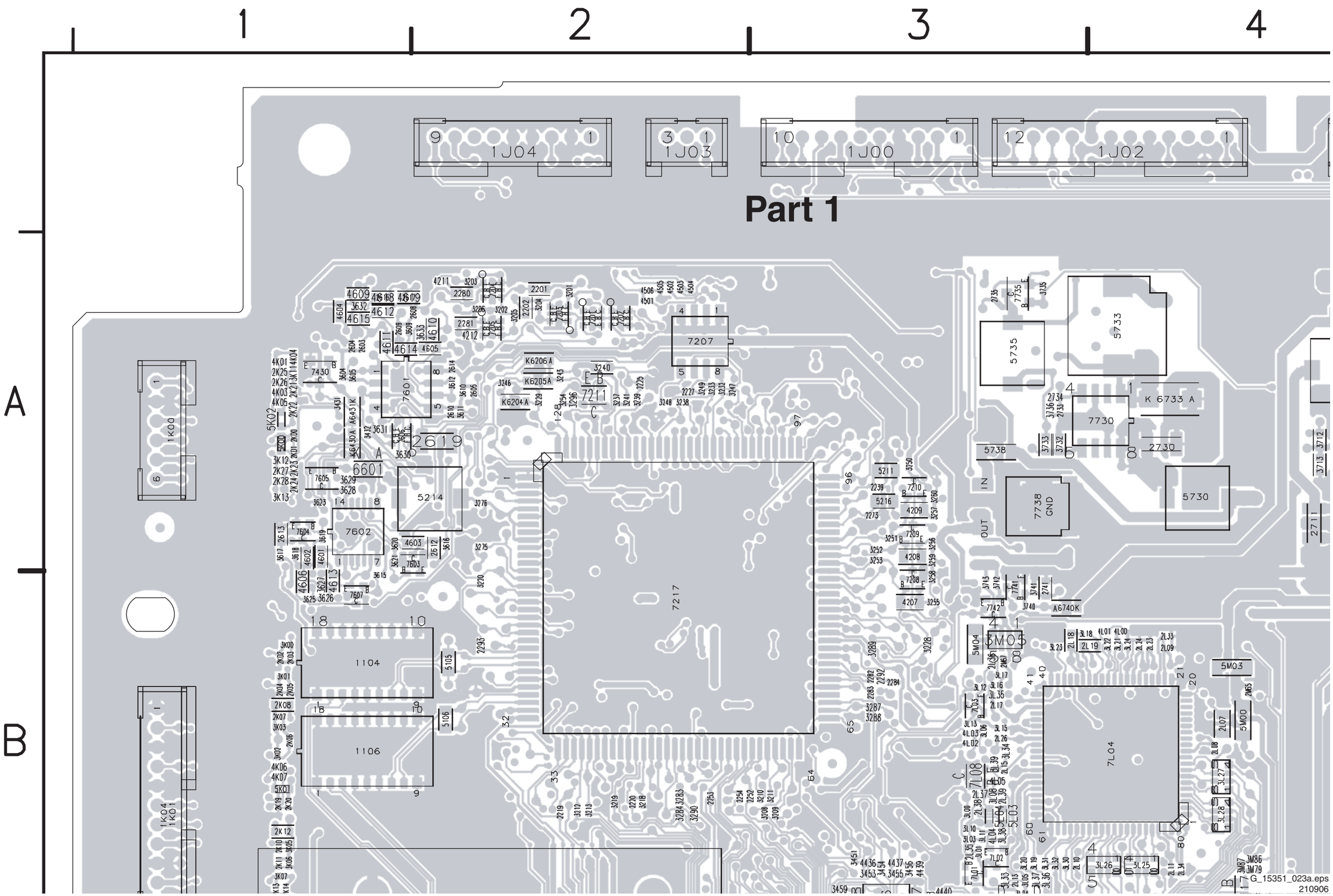
Layout Small Signal Board (Bottom Side Overview)

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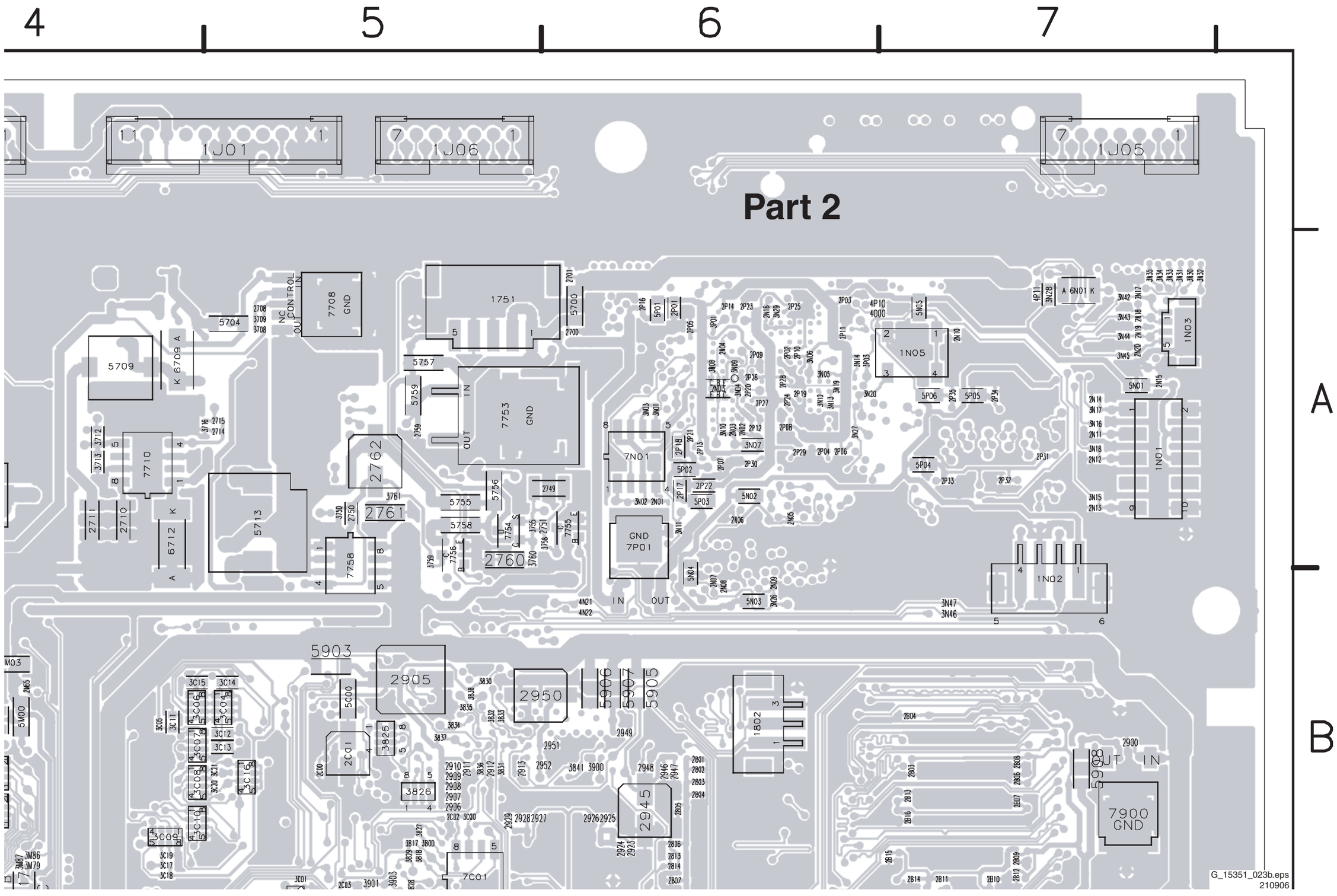


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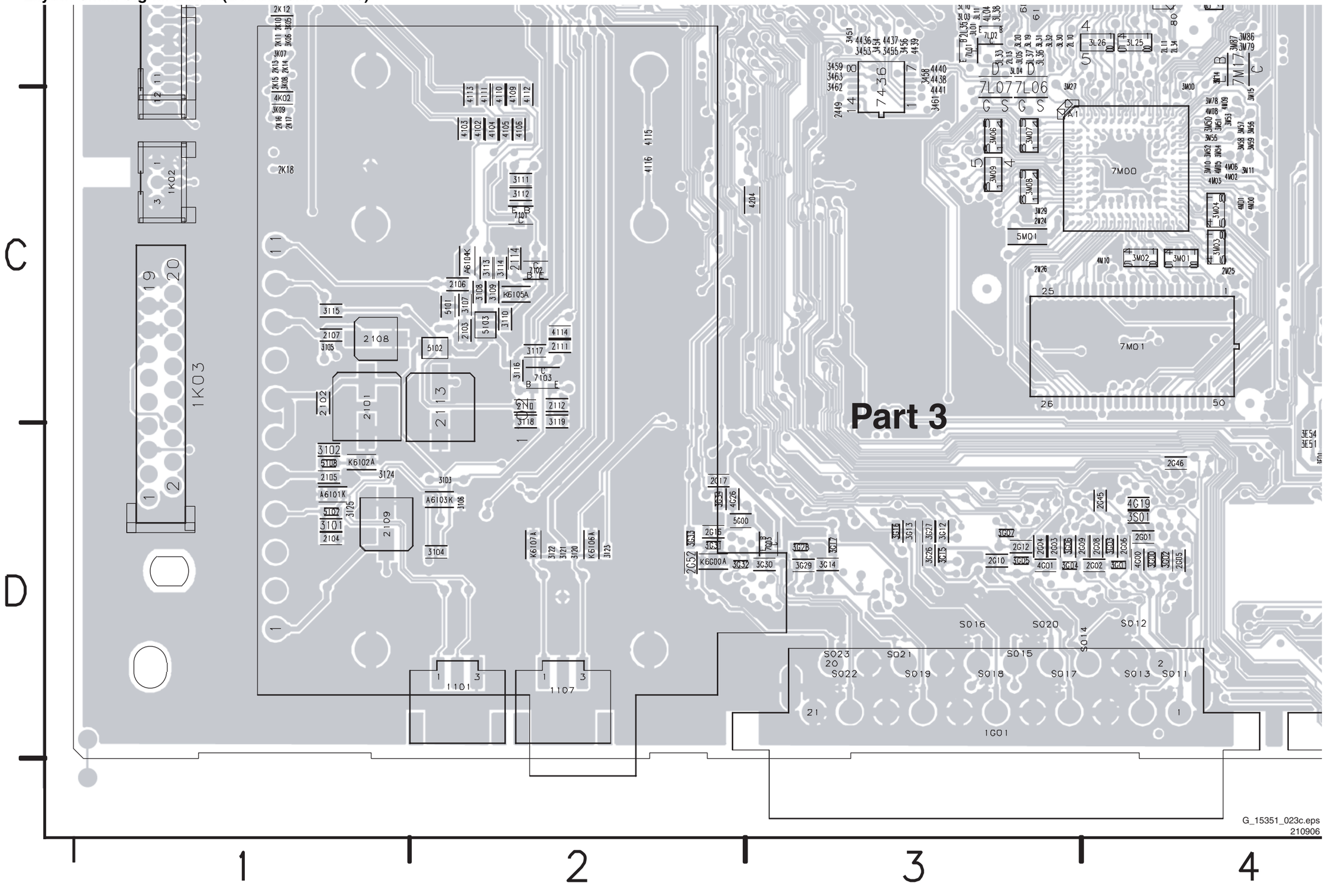
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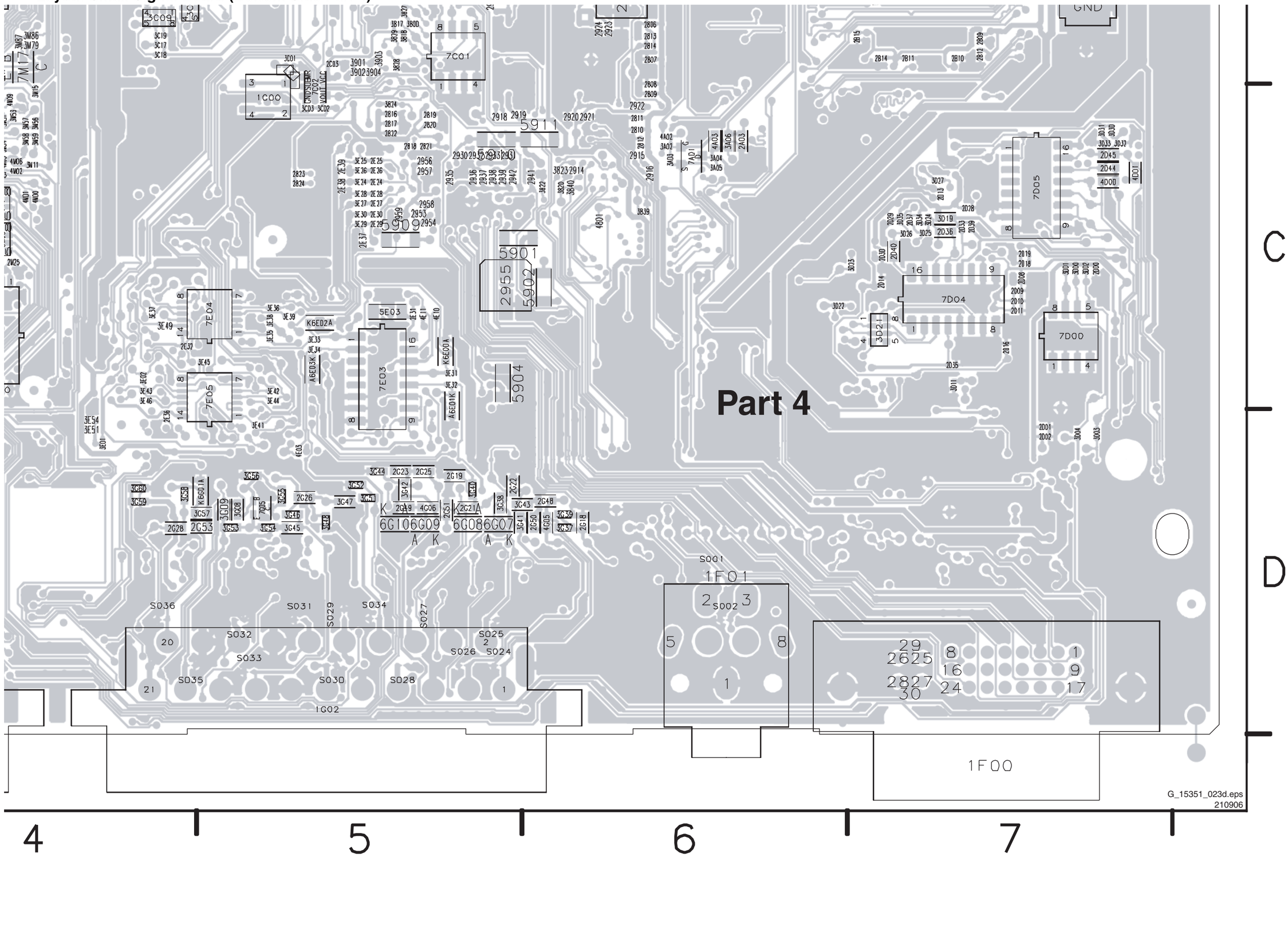
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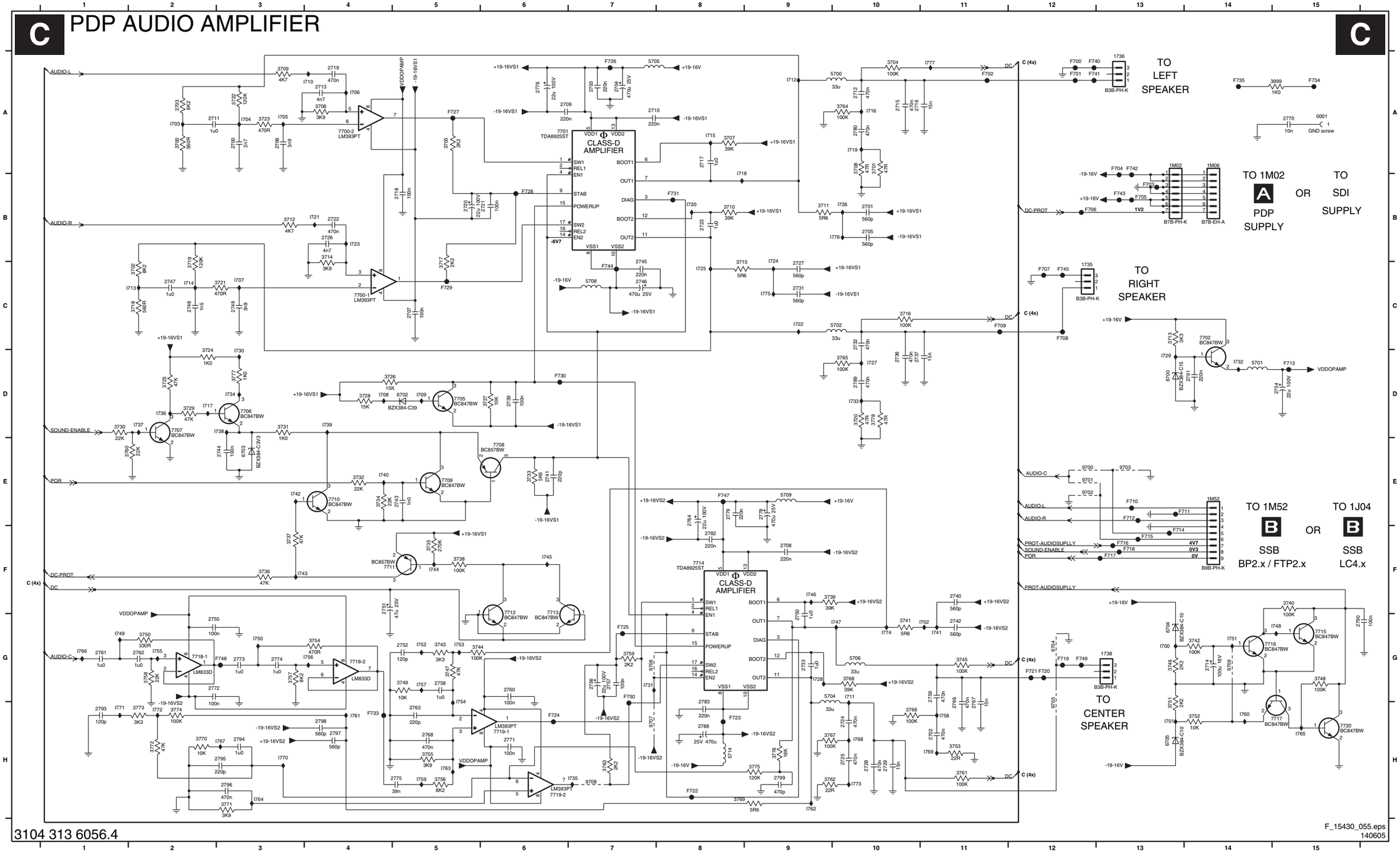


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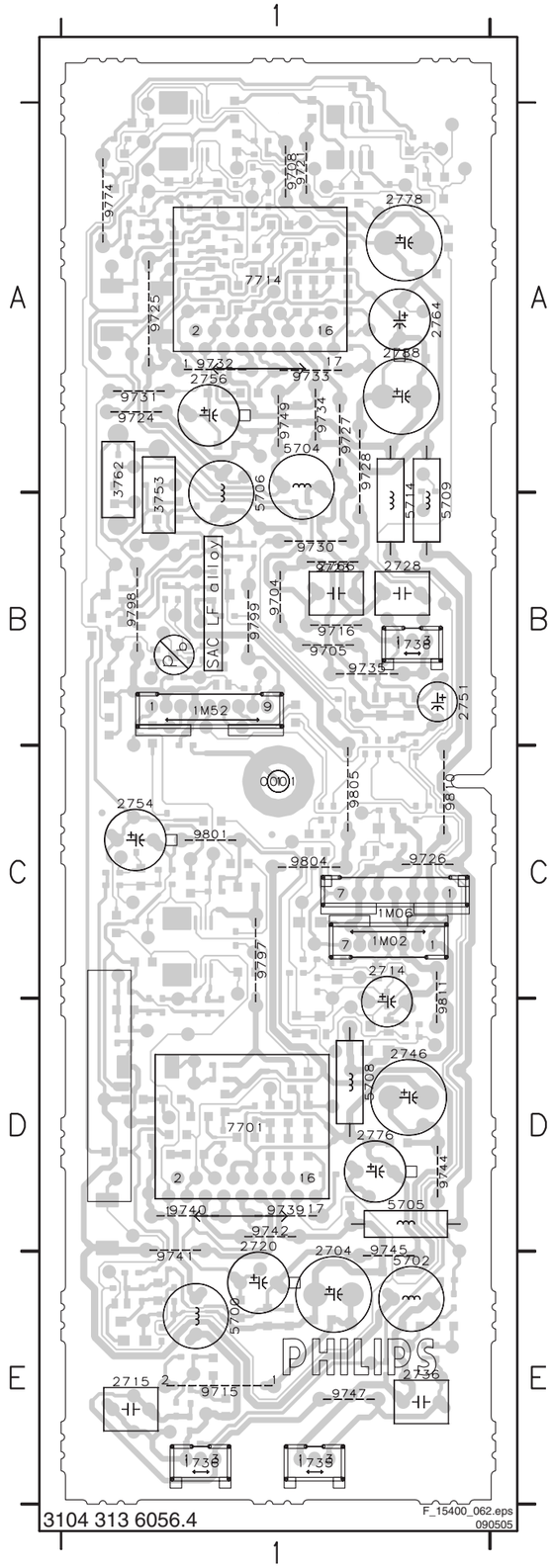
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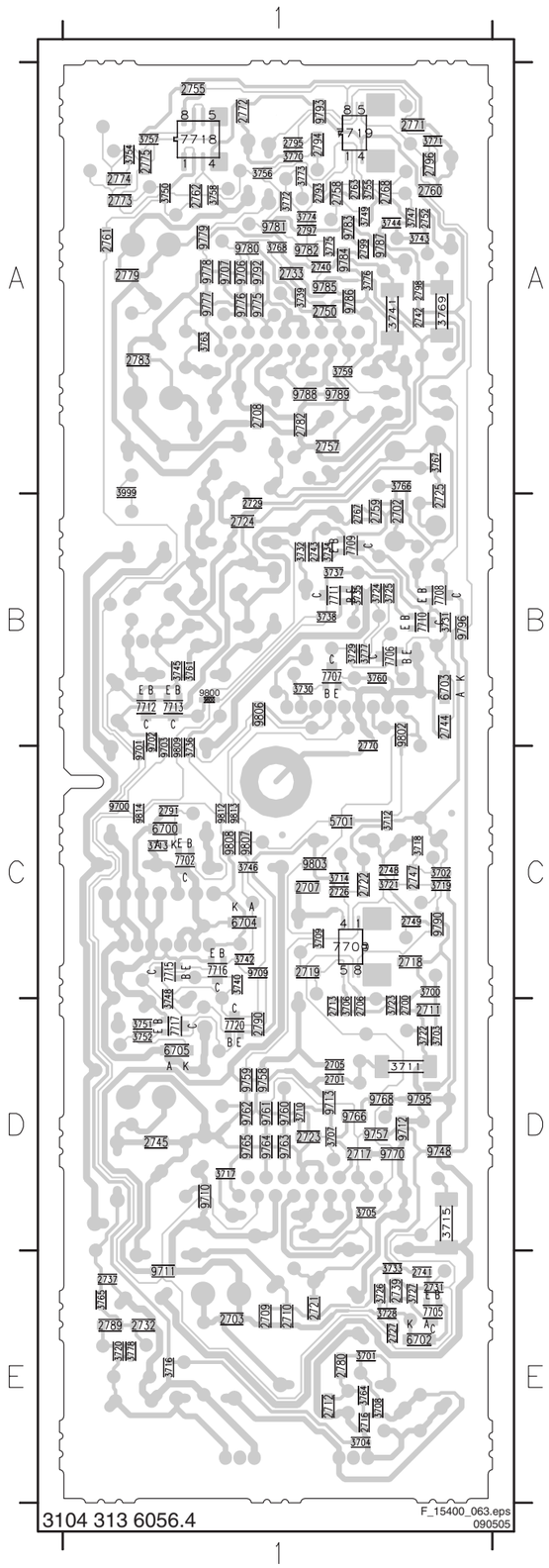
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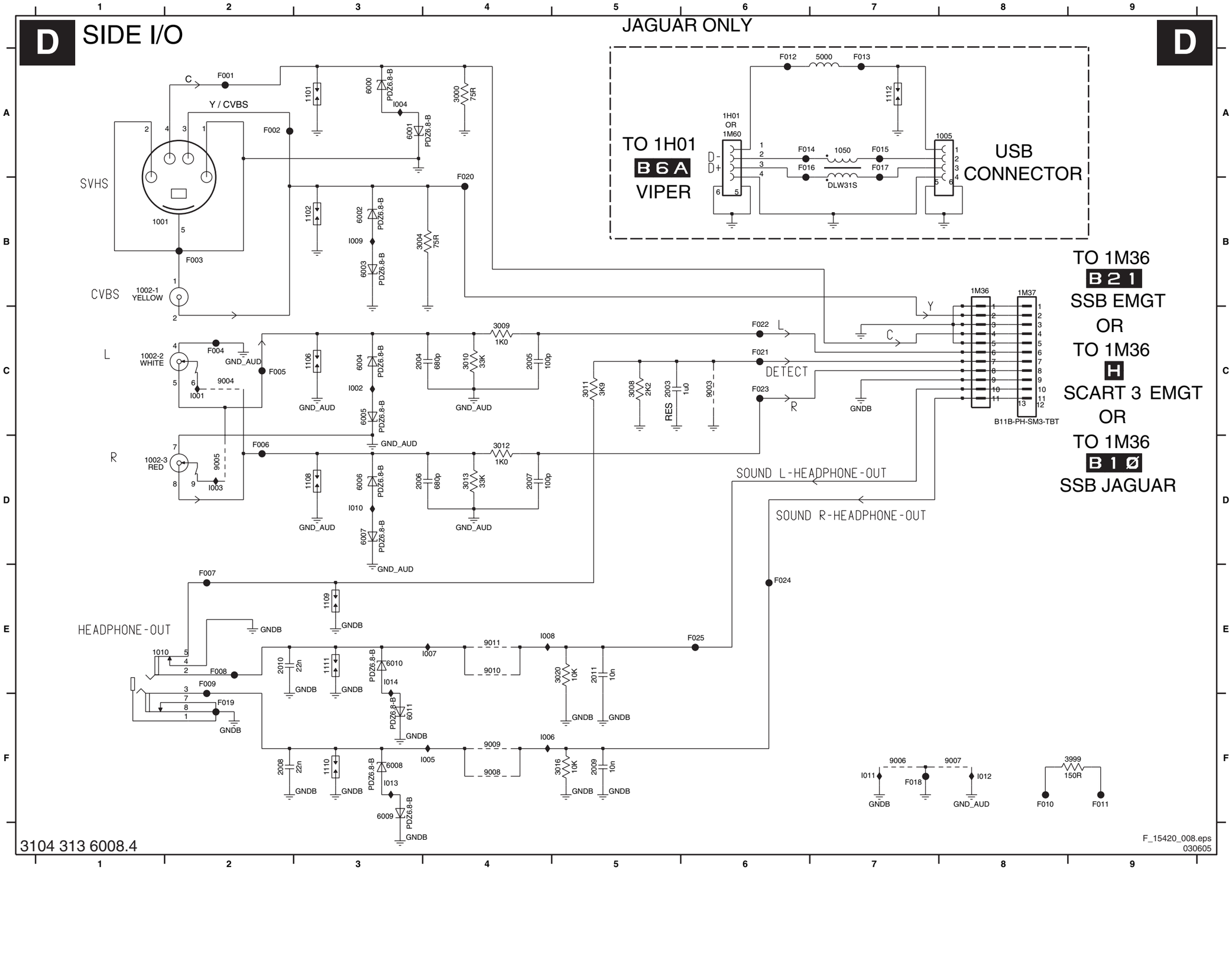
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Layout PDP Audio Amplifier Panel (Bottom Side)



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3764 E1
3765 E1
3766 A1
3767 A1
3768 A1
3769 A1
3770 A1
3771 A1
3772 A1
3773 A1
3774 A1
3775 A1
3776 A1
3777 B1
3778 E1
3999 A1
5701 C1
6700 C1
6702 E1
6703 B1
6704 C1
6705 D1
6706 B1
7700 C1
7702 C1
7705 E1
7706 B1
7707 B1
7708 B1
7709 B1
7710 B1
7711 B1
7712 B1
7713 B1
7715 C1
7716 C1
7717 D1
7718 A1
7719 A1
7720 D1
9700 C1
9701 C1
9702 B1
9703 C1
9706 A1
9707 A1
9709 C1
9710 D1
9711 E1
9712 D1
9713 D1
9748 D1
9757 D1
9758 D1
9759 D1
9760 D1
9761 D1
9762 D1
9763 D1
9764 D1
9765 D1
9766 D1
9768 D1
9770 D1
9775 A1
9776 A1
9777 A1
9778 A1
9779 A1
9780 A1
9781 A1
9782 A1
9784 A1
9786 A1
9787 A1
9788 A1
9789 A1
9790 C1
9792 A1
9793 A1
9795 D1
9796 B1
9800 B1
9801 C1
9802 B1
9803 C1
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9807 C1
9808 C1
9809 C1
9812 C1
9813 C1
9814 C1

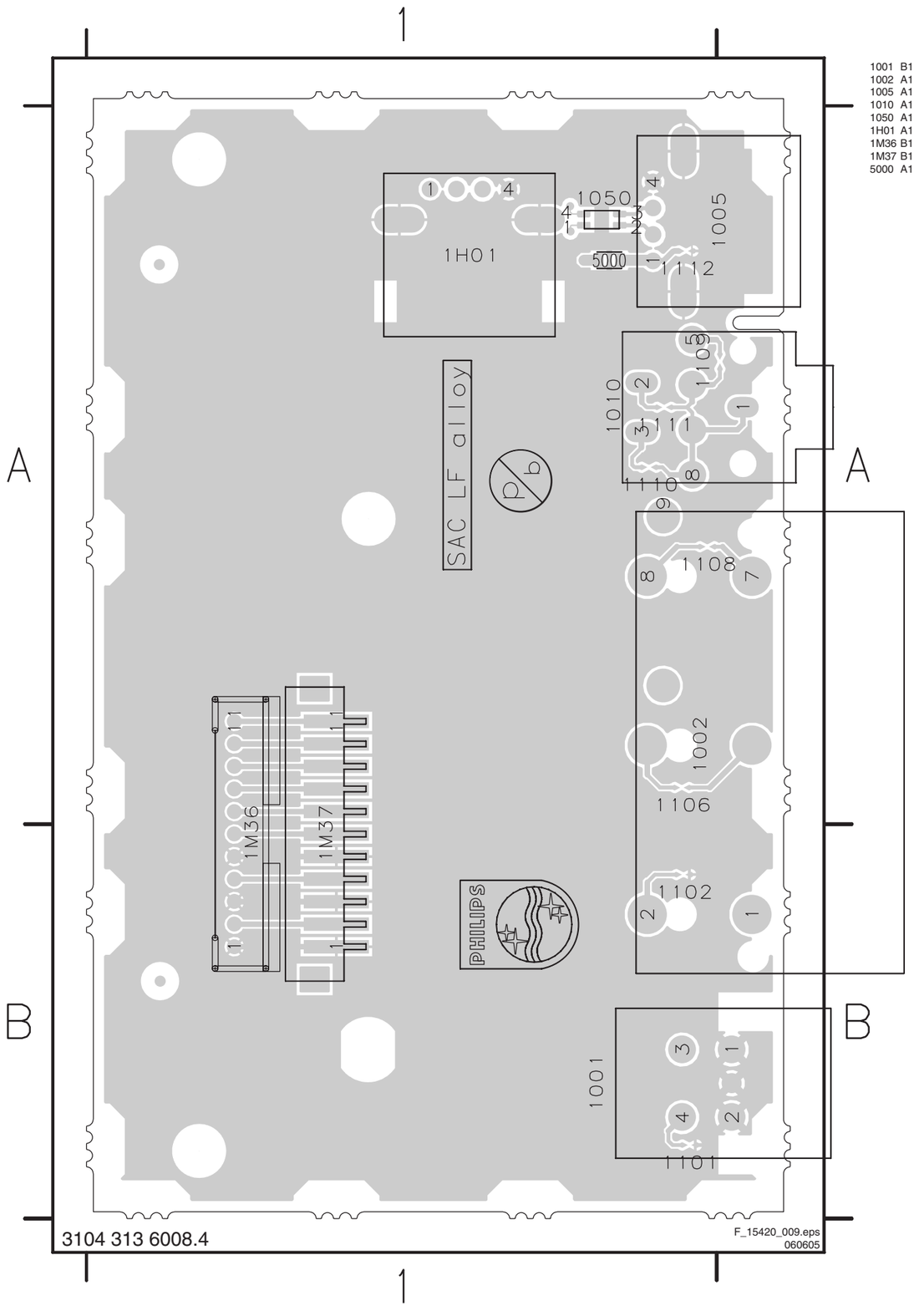
Side I/O Panel



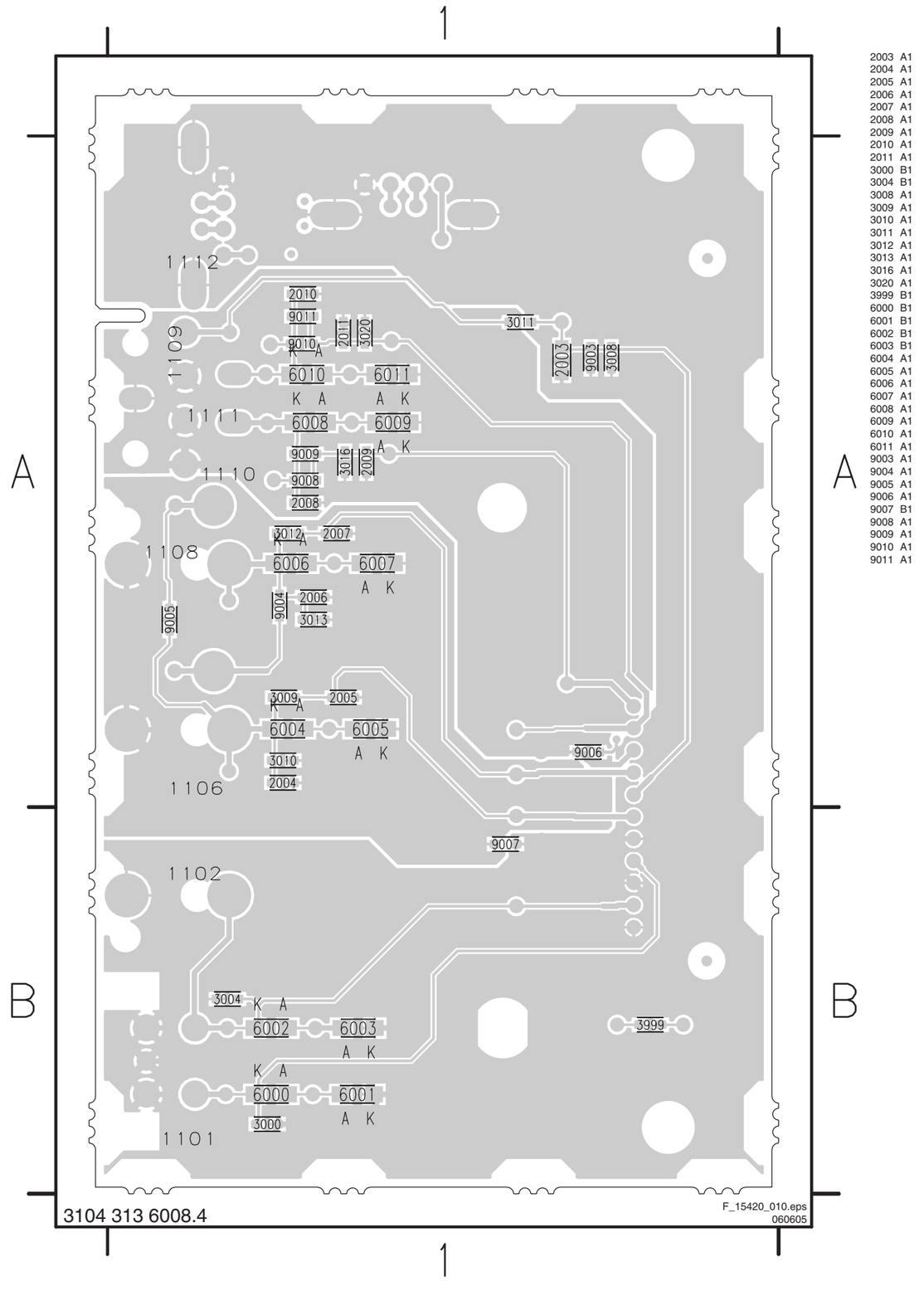
3104 313 6008.4

1001 B2	F002 A2
1002-1 B1	F003 B2
1002-2 C1	F004 C2
1002-3 D1	F005 C2
1005 A8	F006 D2
1010 E1	F007 E2
1050 A7	F008 E2
1101 A3	F009 E2
1102 B3	F010 F8
1106 C3	F011 F9
1108 D3	F012 A6
1109 E3	F013 A7
1110 F3	F014 A6
1111 E3	F015 A7
1112 A7	F016 A6
1H01 A6	F017 A7
1M36 B8	F018 F7
1M37 B8	F019 F2
2003 C5	F020 B4
2004 C3	F021 C6
2005 C4	F022 C6
2006 D3	F023 C6
2007 D4	F024 E6
2008 F2	F025 E6
2009 F5	I001 C2
2010 E2	I002 C3
2011 E5	I003 D2
3000 A4	I004 A3
3004 B3	I005 F4
3008 C5	I006 F4
3009 C4	I007 E4
3010 C4	I008 E4
3011 C5	I009 B3
3012 D4	I010 D3
3013 D4	I011 F7
3016 F5	I012 F8
3020 E5	I013 F3
3999 F9	I014 E3
5000 A7	
6000 A3	
6001 A3	
6002 B3	
6003 B3	
6004 C3	
6005 C3	
6006 D3	
6007 D3	
6008 F3	
6009 F3	
6010 E3	
6011 F3	
9003 C6	
9004 C2	
9005 D2	
9006 F7	
9007 F8	
9008 F4	
9009 F4	
9010 E4	
9011 E4	
F001 A2	

Layout Side I/O Panel (Top Side)

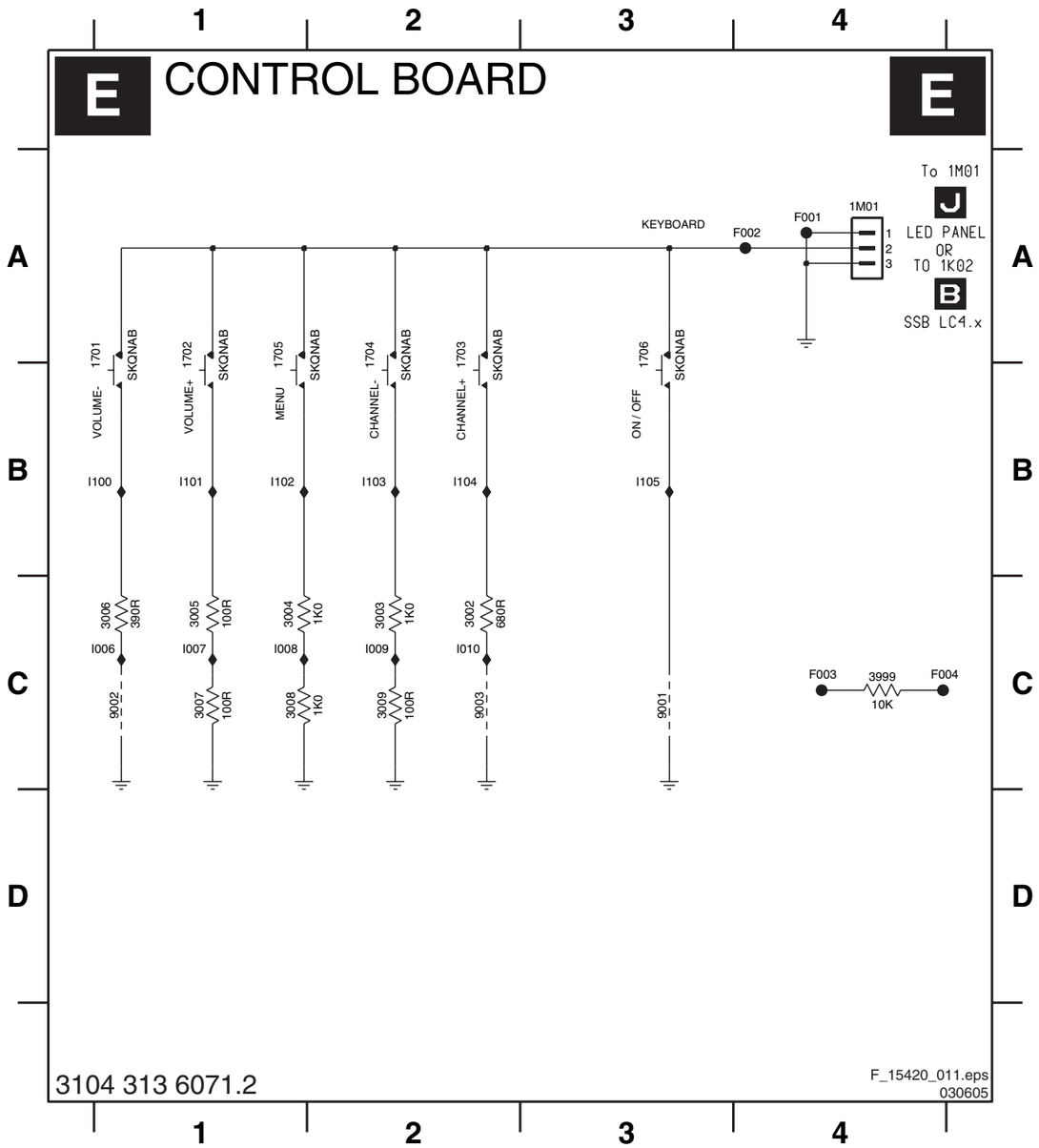


Layout Side I/O Panel (Bottom Side)



Control Board

1701 A1	1704 A2	1M01 A4	3004 C1	3007 C1	3999 C4	9003 C2	F003 C4	I007 C1	I010 C2	I102 B1	I105 B3
1702 A1	1705 A1	3002 C2	3005 C1	3008 C1	9001 C3	F001 A4	F004 C4	I008 C1	I100 B1	I103 B2	
1703 A2	1706 A3	3003 C2	3006 C1	3009 C2	9002 C1	F002 A4	I006 C1	I009 C2	I101 B1	I104 B2	

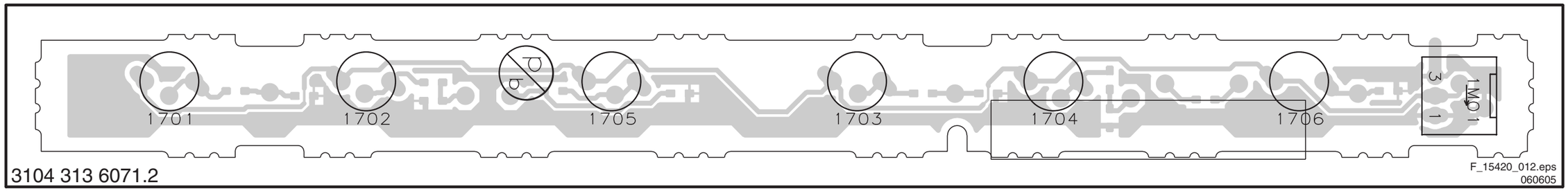


Personal Notes:

E_06532_012.eps
131004

Layout Control Board (Top Side)

1701 -- 1702 -- 1703 -- 1704 -- 1705 -- 1706 -- 1M01 --

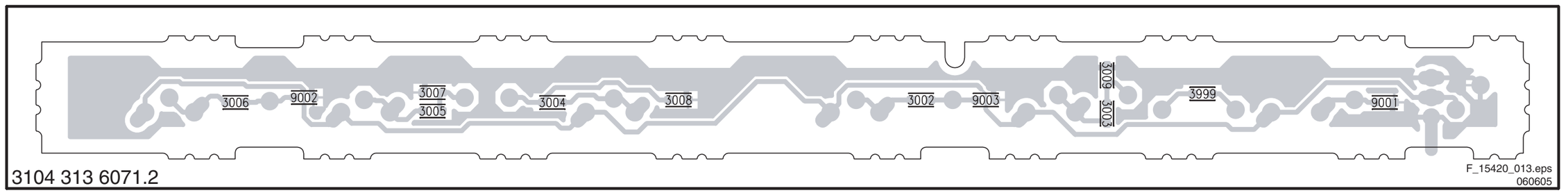


3104 313 6071.2

F_15420_012.eps
060605

Layout Control Board (Bottom Side)

3002 -- 3003 -- 3004 -- 3005 -- 3006 -- 3007 -- 3008 -- 3009 -- 3999 -- 9001 -- 9002 -- 9003 --



3104 313 6071.2

F_15420_013.eps
060605

LED Panel

LED PANEL

"BLUE" or "GREEN"

"RED"

"LED DIMMING"

"IR RECEIVER"

"LIGHT SENSOR"

TO 1M20 — B — SSB JL2.x / LC4.x OR TO 1M20 — B E — EXTERNALS FTx2.x / Bx2.x

TO 1M01 — E — CONTROL BOARD

TO 0345 — E — TOP CONTROL

0001 EMC HOLE

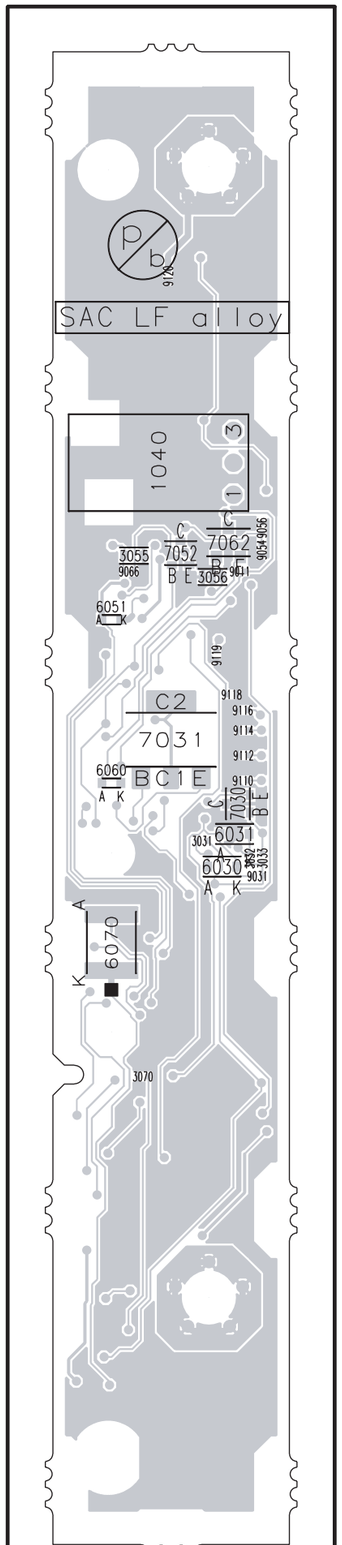
0002 EMC HOLE

F038 3999 F039 10K

F_15420_014.eps 030605

0001 A10
0002 A11
0345 D2
1040 F9
1M01 C2
1M20 A2
2014 C4
2030 G5
2040 F9
2070 F12
2071 G12
3011 A4
3030 G4
3031 G5
3032 G5
3033 G5
3034 G6
3035 G6
3036 G7
3037 G7
3040 F9
3041 G9
3042 F9
3051 B8
3052 B8
3053 C8
3054 C8
3055 C8
3056 D6
3061 B6
3062 B6
3063 D5
3064 D5
3070 G11
3071 F12
3072 G13
3073 G13
3074 F13
3075 F14
3076 G14
3077 G12
3078 G11
3091 G2
3092 F2
3093 F3
3094 F2
3096 G3
3999 B12
6030 G4
6031 G4
6051 C8
6060 C6
6070 G11
7030 G6
7031 G7
7032 G4
7051 C8
7052 D8
7061 D6
7062 C6
7070-1 F12
7070-2 G13
7092 F2
9011 C6
9012 B4
9015 A4
9016 A4
9017 A4
9031 G4
9040 G9
9041 F9
9042 G9
9043 F9
9052 C9
9053 C8
9054 D9
9056 D7
9062 D7
9063 D6
9064 B7
9065 B7
9066 D7
9070 F11
9071 F11
9072 G11
9081 E4
9082 E3
9083 D3
9093 G2
9110 D2
9111 D4
9112 D2
9113 D4
9114 E2
9115 E4
9116 E2
9117 E4
9118 E2
9119 E2
9120 B10
9121 B11
9122 F11
F010 A3
F011 A3
F012 A3
F013 B3
F014 B3
F015 A3
F016 B3
F017 B3
F018 B2
F021 C3
F038 B12
F039 B12
F083 D3
F084 D3
F086 E3
F089 E3
I010 F2
I011 G2
I012 E3
I013 E4
I026 F12
I033 G4
I037 G7
I038 G6
I039 G4
I040 G5
I041 G9
I042 G9
I043 F9
I044 F9
I045 F9
I046 E9
I047 G4
I048 G5
I049 G7
I051 D8
I052 C8
I053 B9
I054 D7
I061 D6
I062 C6
I063 D7
I064 D5
I065 C9
I071 F11
I072 F14
I073 G12
I074 F13
I075 G12
I076 F13
I093 F2
I094 F3
I095 C6

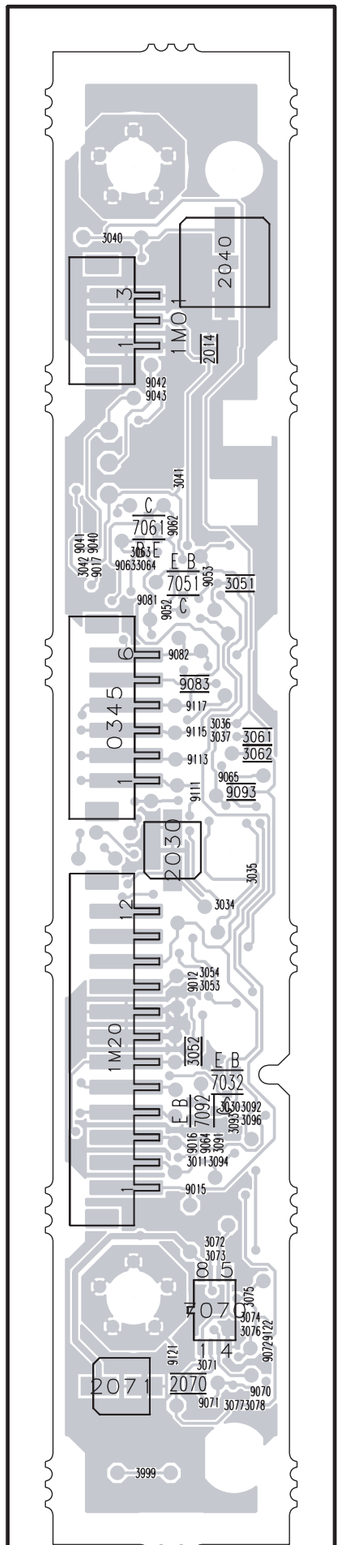
Layout LED Panel



F_15420_015.eps
060605

3104 313 6074.3

1040 --
3031 --
3032 --
3033 --
3055 --
3056 --
3070 --
6030 --
6031 --
6051 --
6060 --
6070 --
7030 --
7031 --
7052 --
7062 --
9011 --
9031 --
9054 --
9056 --
9066 --
9110 --
9112 --
9114 --
9116 --
9118 --
9119 --
9120 --



F_15420_016.eps
060605

3104 313 6074.3

0345 --
1M01 --
1M20 --
2014 --
2030 --
2040 --
2070 --
2071 --
3011 --
3030 --
3034 --
3035 --
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3078 --
3091 --
3092 --
3093 --
3094 --
3096 --
3999 --
7032 --
7051 --
7061 --
7070 --
7092 --
9012 --
9015 --
9016 --
9017 --
9040 --
9041 --
9042 --
9043 --
9052 --
9053 --
9062 --
9063 --
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9093 --
9111 --
9113 --
9115 --
9117 --
9121 --
9122 --

Personal Notes:

E_06532_012.eps
131004

IBO Zapper: Mojo

K1 MOJO

FOR DEV. ONLY

FOR DEV. ONLY

(JTAG-ETAG-SYS)

(TS)

(AV)

(PWR)

(I2C-USB-SCO)

(SDRAM)

(GPIO)

(MIU)

CONFIGURABLE

3139 123 5906.2

F_15270_054.eps
190505

1100-1 D8
1100-2 D8
1101 B9
1106 D14
2100 F6
2101 F6
2102 G6
2103 G6
2104 G6
2105 G6
2106 G6
2107 G6
2108 H6
2109 H6
2110 H6
2111 H6
2112 F6
2113 F6
2114 F6
2115 G6
2116 G6
2119 H9
2120 H9
2121 H9
2122 C8
2130 I7
2131 I7
2132 H7
2133 C5
3100 A4
3101 E6
3112 E9
3113 C7
3114 A3
3115 A4
3116 A4
3117 A4
3119 A4
3120 E5
3121 E5
3122 E6
3123 E6
3124 E6
3125 E6
3126 E6
3127 E6
3128 E14
3129 F14
3130 E14
3131 E14
3132 F14
3133 G1
3134 G1
3135 F1
3136 E14
3137 F14
3138 A3
3139 C6
3140 I9
3141 D14
3142 G1
3143 G4
3144 H4
3145 H2
3146 H4
3147 H4
3148 I2
3149 I3
3150 I3
3151 F13
3154 G13
3155 G14
3156-1 G11
3156-2 H11
3156-3 G11
3156-4 H11
3157-1 G11
3157-2 H11
3157-3 G11
3157-4 H11
3158-1 G11
3158-2 H11
3158-3 G11
3158-4 H11
3159-1 G11
3159-2 H11
3159-3 H11
3159-4 H11
3160 I11
3161 I11
3162 I11
3163 G11
3164 G1
4100 H3
4101 H2
4102 A4
4104 A4
4105 B7
4106 B7
4107 B7
4108 F14
4109 C7
4110 B7
5100 I7
5101 F5
5102 F5
5103 C5
7100-1 F8
7100-2 E2
7100-3 F2
7100-4 A12
7100-5 G12
7100-6 H5
7100-7 D12
7100-8 D7
7103 H3
7104 H2
7105 F13
7107 A7
7108 A7
7109 A7
7110 A7
7111 A7
7112 A7
7113 A7
7114 A7
7122 E9
7125 B6
7129 E13
7131 E13
7132 F13
7133 G3
7134 H3
7135 H2
7136 H2
7137 F14
7138 A10
I100 H4
I101 H4
I103 F13
I104 E6
I105 I9

IBO Zapper: Flash Memory

K2 FLASH MEMORY

K2

EPROM 4Mx8/2Mx16

2/4/8MB NOR FLASH

Φ SYNC DRAM 4x2Mx16

2/4/8MB NOR FLASH

Φ (8Kx8) EEPROM SYSTEM EEPROM

OPTION

MECHANICAL 3.5MM HOLE

0001 TYPE
0002 TYPE
0003 TYPE
0004 TYPE
0005 HEATSINK
0006 HEATSINK
0007 HEATSINK
0008 HEATSINK
0009 HEATSINK
0010 HEATSINK
0011 HEATSINK
0012 HEATSINK
0013 HEATSINK
0014 HEATSINK
0015 HEATSINK
0016 HEATSINK
0017 HEATSINK
0018 HEATSINK

0001 H1
0002 H1
0003 H2
0004 H2
0005 H3
0006 H4
0007 H4
0008 H5
0009 H5
0010 H6
0011 H6
0012 G7
0013 G8
0014 G9
0015 G9
0016 G10
0017 G10
0018 G11
2200 A13
2201 A12
2202 A13
2203 A8
2204 A9
2205 B13
2206 D5
2207 E4
2208 E4
2209 E4
2210 E4
2211 E4
2212 E4
2213 E4
2214 F11
3200 D6
3201 D14
3202 D13
3203 E11
3204 E12
3205 D9
3206 F12
3207 F13
3209 F13
3210 F13
3211 F12
3212 C11
4200 D7
4201 D7
4202 C7
4203 D7
4204 D7
4205 C9
4212 F13
4213 D13
4214 D11
4215 D9
5200 A12
5201 A8
5202 D3
5203 E11
7200 B8
7201 B12
7202 E3
7203 F11
F200 F12
F201 D6
I200 A12
I201 A8
I202 D4
I203 C12
I204 D7
I205 D6
I206 D9
I207 F12
I208 F13
I209 D12
I210 D12
I211 D13

3139 123 5906.2

F_15270_055.eps
131205

IBO Zapper: Power Supply

K3 POWER SUPPLY

FROM 1220 OF POWER SUPPLY BOARD

1301 B1
1303 H3
1304 B6
2300 B10
2301 B7
2302 C13
2303 C8
2304 C11
2305 F11
2306 C12
2308 D10
2309 E7
2310 E8
2311 E11
2312 A11
2313 G10
2314 H2
2315 H7
2316 H8
2317 H12
2318 H11
2319 I13
2320 C12
2321 D11
2322 G11
2323 A11
2324 B10
2325 D10
2326 H11
2327 H11
2328 I11
2329 C9
2330 E12
2331 H9
2332 F13
2333 B2
2334 B3
2335 B3
2336 E9
2337 B11
3300 A7
3301 A7
3302 A8
3303 A7
3304 B9
3306 C8
3307 C9
3311 D8
3312 D7
3313 D7
3314 D7
3315 E9
3316 G3
3317 E9
3318 G7
3319 G7
3320 G7
3321 G8
3322 H9
3323 H8
3324 A12
3325 A13
3326 A11
3327 A13
3328 B13
3329 A12
3330 A11
3331 I8
3332 E9
3333 B11
3334 C12
4302 E11
4303 E12
5300 B11
5301 B7
5302 C12
5303 D11
5304 D6
5305 H11
5306 H6
5307 E12
5309 B3
6300 A10
6303 D11
6304 G11
6305 F11
6306 E11
6307 B12
7300 A9
7301 C12
7302 F12
7303 C9
7305 F9
7306 G2
7307 H12
7308 I12
7309 A13
7310 A12
7311 B11
7312 B12
F300 A7
F301 B5
F302 B5
F303 B13
F304 C13
F305 C1
F306 C1
F307 C12
F308 D7
F309 B2
F310 E12
F312 H2
F313 H13
F314 I13
F315 G7
F316 H11
F317 F13
I301 D2
I302 D1
I306 D1
I310 A11
I312 A13
I313 B13
I314 B10
I316 B7
I317 B11
I318 B8
I321 D11
I322 D7
I323 E8
I324 G11
I325 H7
I326 H8
I327 E11
I328 B2
I330 F11
I331 F11

POWER ON RESET

FOR DEV. ONLY

3139 123 5906.2

F_15270_056.eps
190505

IBO Zapper: Interface

K4 INTERFACE

K4

1402
UART CON FOR COMPAIR ONLY
S3B-PH-K
ESD Protection
6401 BZX384-C6V2
6403 BZX384-C6V2
4414
4415
3414 100R
3415 100R
2415 330p
2414 330p
TXD0 K1
RXD0 K1

+3V3
3405 1K0
3406 1K0
3411 180R
7402 BC847B
1V6
1V
3V3
K1 SPDIF
2411 100n
3404 560R
3407 68R
2412 100n
5401 100MHz
3408 RES
6400 BZX384-C5V1
2413 100n
SPDIF OUTPUT
1401
YKC21-3416
1400

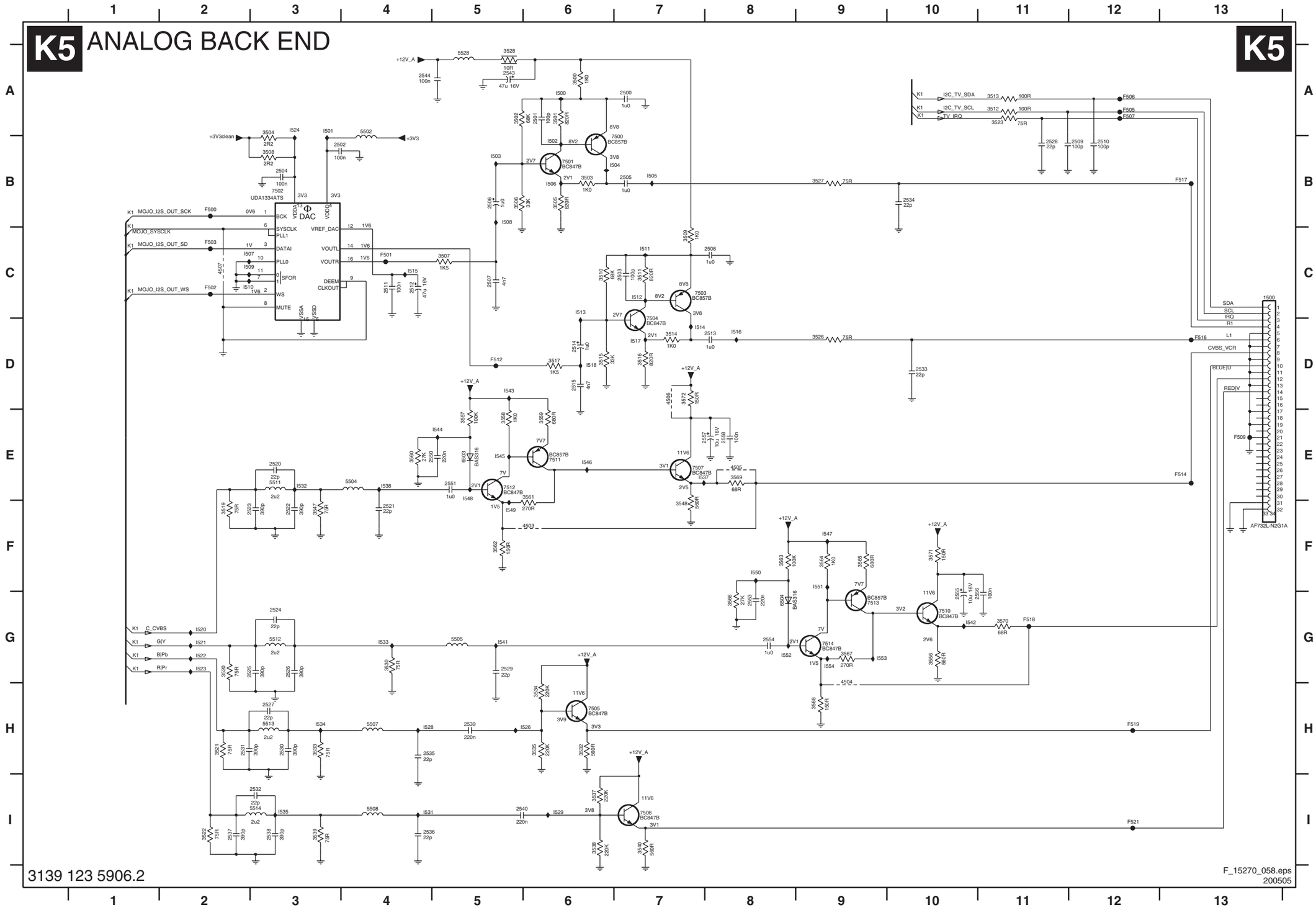
+3V3 +5V_USB
3409 10K RES
3403 10K
2403 100n
LM3525MY
7403
LM3525MX-H
5V1
4V5
3424 RES 4402
K1 USB_OVRCUR
K1 USB_PWR
F410
2416 RES
5420
2405 100n
2406 100u 6.3V
K 1
VBUS
K1 USB_DM
K1 USB_DP
3420 33R
3421 33R
3422 15K
3423 15K
F424
1403
5401-032-100-70
USB

3139 123 5906.2

F_15270_057.eps
200505

1400 B10
1401 B11
1402 B3
1403 F11
2403 E7
2405 F7
2406 F8
2411 B6
2412 B8
2413 B9
2414 C4
2415 C4
2416 F5
3403 E6
3404 B6
3405 B7
3406 B7
3407 B8
3408 B9
3409 E6
3411 B7
3414 B4
3415 C4
3420 F9
3421 F9
3422 F10
3423 F10
3424 F5
4402 F5
4414 B4
4415 C4
5401 B9
5420 F7
6400 B9
6401 C3
6403 C4
7402 B7
7403 E6
F407 B10
F408 B10
F409 F5
F410 F5
F414 B4
F415 C4
F420 F10
F421 F10
F422 F10
F423 F10
F424 F10
I402 F6
I403 F6
I404 E7
I405 F9
I406 F9
I416 B7
I417 B8
I418 B6
I419 B8
I420 B6
I421 B9

IBO Zapper: Analog Back End



1500 C13 5512 G3
2500 A7 5513 H3
2501 A6 5514 I3
2502 B3 5528 A5
2503 C7 6503 E5
2504 B3 6504 G8
2505 B7 7500 A6
2506 B5 7501 B6
2507 C5 7502 B3
2508 C8 7503 C7
2509 B12 7504 D7
2510 B12 7505 H6
2511 C4 7506 I7
2512 C4 7507 E7
2513 D8 7510 G10
2514 D6 7511 E6
2515 D6 7512 E5
2520 E3 7513 G9
2521 F4 7514 G9
2522 F3 F500 B2
2523 F3 F501 C4
2524 G3 F502 C2
2525 G3 F503 C2
2526 G3 F505 A12
2527 H3 F506 A12
2528 B11 F507 A12
2529 G5 F509 E13
2530 H3 F512 D5
2531 H2 F514 E13
2532 I3 F516 D13
2533 D10 F517 B13
2534 B10 F518 G11
2535 H4 F519 H12
2536 I4 F521 I12
2537 I2 I500 A6
2538 I3 I501 A3
2539 H5 I502 B6
2540 I5 I503 B5
2543 A5 I504 B7
2544 A4 I505 B7
2550 E5 I506 B6
2551 E5 I507 C2
2553 G8 I508 B5
2554 G8 I509 C2
2555 G10 I510 C2
2556 G11 I511 C7
2557 E8 I512 C7
2558 E8 I513 C6
3500 A6 I514 D7
3501 A6 I515 C4
3502 A5 I516 D8
3503 B6 I517 D7
3504 A3 I518 D6
3505 B6 I520 G2
3506 B5 I521 G2
3507 C5 I522 G2
3508 B3 I523 G2
3509 C7 I524 A3
3510 C6 I526 H6
3511 C7 I528 H4
3512 A11 I529 I6
3513 A11 I531 I4
3514 D7 I532 E3
3515 D6 I533 G4
3516 D7 I534 H3
3517 D6 I535 I3
3519 F2 I537 E7
3520 G2 I538 E4
3521 H2 I541 G5
3522 I2 I542 G10
3523 A11 I543 D5
3526 D9 I544 E5
3527 B9 I545 E5
3528 A5 I546 E6
3530 G4 I547 F9
3532 H6 I548 E5
3533 H3 I549 F5
3534 H6 I550 F8
3535 H6 I551 F9
3537 I6 I552 G8
3538 I6 I553 G9
3539 I3 I554 G9
3540 I7
3547 F3
3548 F7
3556 G10
3557 E5
3558 E5
3559 E6
3560 E4
3561 E6
3562 F5
3563 F8
3564 F9
3565 F9
3566 G8
3567 G9
3568 H9
3569 E8
3570 G11
3571 F10
3572 D7
4503 F6
4504 H9
4505 E8
4506 D7
4507 C2
5502 A4
5504 E4
5505 G5
5507 H4
5508 I4
5511 E3

IBO Zapper: Front End

K6 FRONT END

TUNER

1600 TD1316/5PHP

RF IN

LB

MB

HB

OSC

PLL

SCL

SDA

XTAL

VTUN

AGC

IF-OUT

IF-AGC

IF-1

IF-2

DC-PWR

NC

MT

F600

F603

I601

5602 2622 47u 16V 2623 100n

+5Vclean

+5V

+3V3

+3V3FE

+1V8FE

1V3

2V2

2V3

2V4

2V8

3V2

4V6

5V

0V

0V6

0V7

1V5

1V6

1V7

7605 74AHC1GU04GW

7606 74AHC1GU04GW

7600 TDA10046AHT

3636 680K

3637 220K

3638 330R

3639 330R

3640 680K

3641 220K

3642 330R

3643 330R

I602

I633

I634

4MHz

4MHz_MOJO

K1

3608 10K

RESET_FE_n

I604

CLR_

AGC_TUN

AGC_IF

VIP

VIM

XIN

XOUT

GPIO0

GPIO1

GPIO2

GPIO3

SADDR0

SADDR1

SDA

SCL

SDA_TUN

SCL_TUN

TEST

I631

F604

F605

F606

F607

F608

F609

F610

F611

F612

2627 100n

2628 100n

2629 100n

2631 100n

2632 10p

3617 220R

1601 AT-49 4MHz

2633 33p

2634 33p

K6 COMP_OUT

K1 FE_LOCK

3621 33R

3645 10K

I614

I2C_LOCAL_SDA 3625

I2C_LOCAL_SCL 3629

100R

3630 100R

3631 100R

I2C_TDA_SDA

I2C_TDA_SCL

I2C

COFDM CHANNEL DECODER

VDD33_ADC

VDDA33_ADC

VDD18_PLL_ADC

VDDA18_PLL

VDDA18_OSC

VDD18_4

VDD18_3

VDD18_2

VDD18_1

VDDE33_3

VDDE33_2

VDDE33_1

VSSA_ADC

VSS_PLL_ADC

VSSA_OSC

VSS7

VSS6

VSS5

VSS4

VSS3

VSS2

VSS1

MPEG-TS (SERIAL) JTAG

MPEG-TS (SERIAL)

MPEG-TS (PARALLEL)

TDO

TDI

TMS

TCK

TRST

ENSERI

S_DO

S_OCLK

S_DEN

S_PSYNC

S_UNCOR

DO0

DO1

DO2

DO3

DO4

DO5

DO6

DO7

OCLK

DEN

PSYNC

UNCOR

SACLK

10046_TDO

STV_TDO

JTAG_TMS

JTAG_TCK

JTAG_TRST

TDA_DAT(0)

TDA_DAT(1)

TDA_DAT(2)

TDA_DAT(3)

TDA_DAT(4)

TDA_DAT(5)

TDA_DAT(6)

TDA_DAT(7)

TDA_CLK

TDA_VALID

TDA_SYNC

UNCOR

ROW_2 1603-2

ROW_1 1603-1

FTSH

5600

5601

5603

7601-1 LM393D

7601-2 LM393D

7602 M24256-BWMN6 (32Kx8) EEPROM

3612 4K7

3613 100K

3614 100K

3615 1K0

3616 10K

3609 4K7

3610 4K7

3611 680K

3607 100R

3608 100R

3618 100K

3619 100K

3620 47K

3622 4K7

3623 4K7

3626 2K7

3627 2K7

3632 100R

3633 100R

3634 470R

3635 33R

2626 100n

2630 100n

2635 100n

2624 100n

2607 100n

2608 100n

2609 100n

2610 100n

2611 100n

2612 100n

2613 100n

2614 47u 16V

2615 100n

2617 100n

2618 100n

2619 100n

2620 100n

2621 47u 16V

4606 OPTION

4607 100n

4610

4635

4905

K6 COMP_OUT

I605

I606

I607

I616

dsp_EEPROM_WP

RESERVED

OPTION

EEPROM

F_15270_059.eps 200505

3139 123 5906.2

1600 A2 I607 E6
1601 F6 I614 G8
1603-1 H13 I615 G12
1603-2 H12 I616 G4
2607 D10 I618 G12
2608 D9 I619 G12
2609 D9 I620 G12
2610 D10 I621 G12
2611 D10 I622 G12
2612 D10 I623 G12
2613 D11 I624 G12
2614 D11 I625 G12
2615 D8 I626 H12
2617 D8 I627 H12
2618 D10 I628 H11
2619 D11 I629 H11
2620 D11 I631 E7
2621 D11 I632 E2
2622 D3 I633 C7
2623 D4 I634 D7
2624 E13
2625 D7
2626 E2
2627 E5
2628 F6
2629 F7
2630 F1
2631 F6
2632 F5
2633 G5
2634 G6
2635 H4
3606 C4
3607 C4
3608 E8
3609 E6
3610 E6
3611 E4
3612 E1
3613 E2
3614 E6
3615 E6
3616 F4
3617 F6
3618 F5
3619 F5
3620 G3
3621 G8
3622-1 G11
3622-2 G11
3622-3 G11
3622-4 G11
3623 G3
3624-1 G11
3624-2 G11
3624-3 G11
3624-4 G11
3625 G8
3626 G5
3627 G5
3629 G8
3630 H8
3631 H8
3632 H5
3633 H5
3634 I3
3635 E11
3636 C6
3637 C6
3638 C7
3639 C7
3640 D6
3641 D6
3642 D7
3643 D7
3644-1 G11
3644-2 H11
3644-3 H11
3644-4 H11
3645 G8
4605 E7
4606 E3
4607 E5
4610 I3
5600 C10
5601 D13
5602 D3
5603 H4
7600 E8
7601-1 E2
7601-2 F2
7602 H4
7605 C6
7606 D6
F600 C2
F603 D3
F604 F5
F605 F5
F606 F5
F607 F7
F608 F7
F609 F8
F610 G7
F611 H5
F612 H5
F613 I3
I601 D4
I602 C5
I603 H12
I604 E8
I605 E4
I606 E5

IBO Zapper: Common Interface

K7 COMMON INTERFACE

PCMCIA CONTROLLER

TC INTERFACE

TS INTERFACE

INTERRUPTS MANAGEMENT

UCSG

CURRENT SWITCH

LATCH

LATCH

68p PCMCIA CONNECTOR

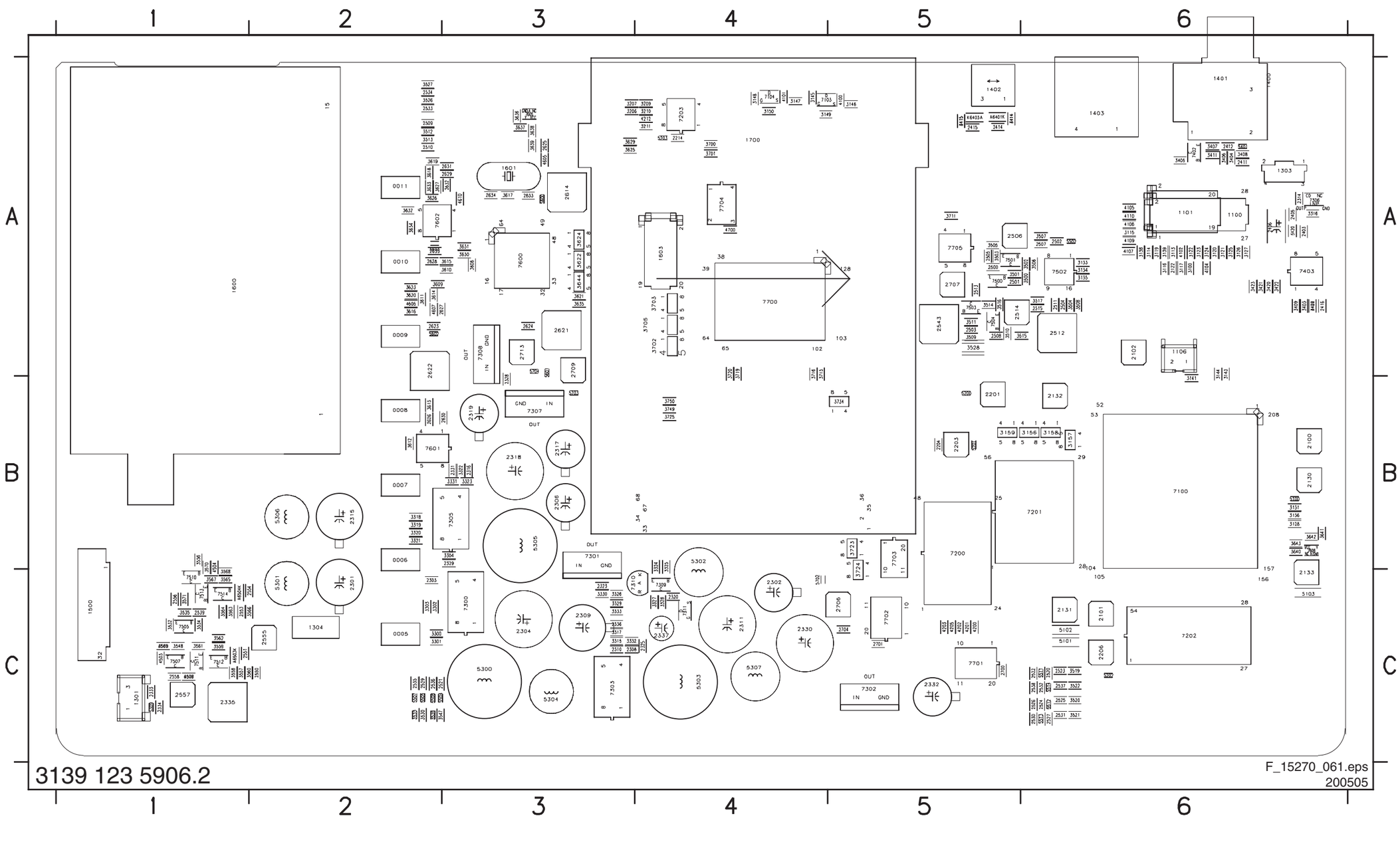
BUS TRANSCEIVER

3139 123 5906.2

F_15270_060.eps 200505

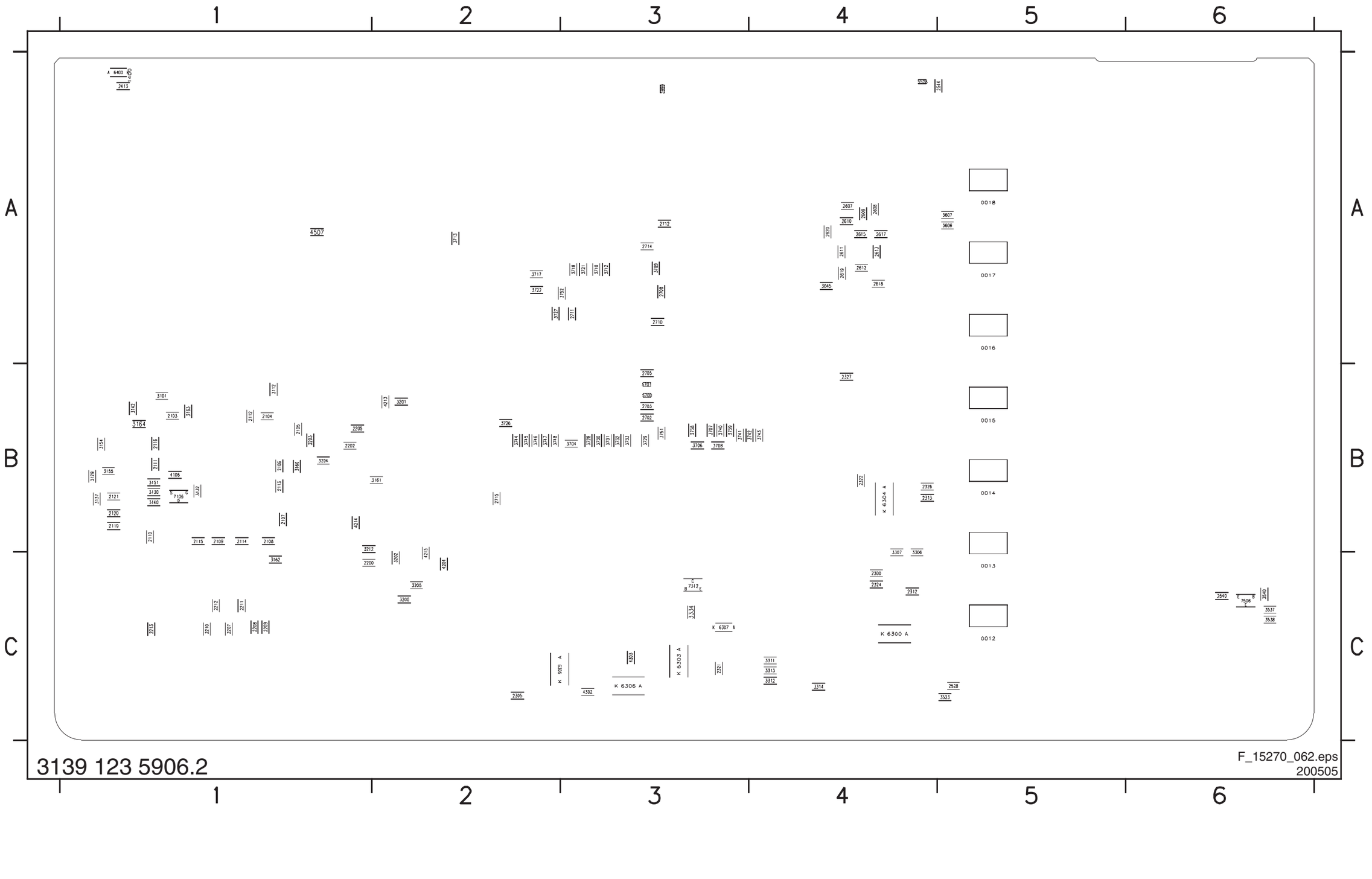
Layout IBO Zapper (Top Side)

0005	C2	2101	C6	2315	B2	2412	A6	2522	C6	2555	C2	2704	C5	3133	A6	3210	A4	3330	C3	3503	A5	3530	C2	3570	B1	3627	A2	3711	A5	4202	C5	5202	C6	5600	A3	7305	B3
0006	B2	2102	A6	2316	B3	2414	A5	2523	C6	2556	C1	2706	C5	3134	A6	3211	A4	3331	B3	3504	A6	3532	C1	3571	C1	3629	A3	3715	A4	4203	C5	5203	A4	5601	A3	7306	A6
0007	B2	2122	A6	2317	B3	2415	A5	2524	C6	2557	C1	2707	A5	3135	A6	3300	C2	3332	C3	3505	A5	3533	C2	3572	C1	3630	A3	3716	A4	4205	C5	5300	C3	5602	A2	7307	B3
0008	B2	2130	B6	2318	B3	2416	A5	2525	C6	2558	C1	2709	A5	3136	B6	3301	C2	3333	C3	3506	A6	3534	C1	3608	A3	3631	A3	3719	A4	4212	A4	5301	C2	5603	A2	7308	A3
0009	A2	2131	C6	2319	B3	2500	A5	2526	C6	2614	A3	2713	A3	3138	A6	3302	C2	3402	A6	3507	A6	3535	C1	3609	A2	3632	A2	3720	A4	4402	A6	5302	B4	5702	C4	7309	C4
0010	A2	2132	B6	2320	C4	2501	A5	2527	C6	2621	A3	3100	A6	3139	A6	3303	C2	3403	A6	3508	A6	3539	C2	3610	A3	3633	A2	3723	B5	4414	A5	5303	C4	5703	B3	7310	C3
0011	A2	2133	C6	2323	C3	2502	A6	2529	C2	2622	A2	3113	A6	3141	B6	3304	B3	3404	A6	3509	A5	3547	C2	3611	A2	3634	A2	3724	C5	4415	A5	5304	A3	5704	A3	7311	C4
1100	A6	2201	B5	2325	C4	2503	A5	2530	C6	2623	A2	3114	A6	3143	A6	3315	C3	3405	A6	3510	A5	3548	C1	3612	B2	3635	A3	3725	B4	4503	C1	5305	B3	6401	A5	7402	A6
1101	A6	2203	B5	2328	B3	2504	A6	2531	C6	2624	A3	3115	A6	3144	A6	3316	A6	3407	A6	3511	A5	3556	B1	3613	B2	3636	A3	3734	B5	4504	B1	5306	B2	6403	A5	7403	A6
1106	A6	2204	B5	2329	B3	2505	A5	2532	C6	2625	A3	3116	A6	3145	A4	3317	C3	3408	A6	3512	A2	3557	C1	3614	A2	3637	A3	3749	B4	4505	C1	5307	C4	6503	C1	7500	A5
1301	C1	2206	C6	2330	C4	2506	A5	2533	A2	2626	B2	3117	A6	3146	A5	3318	B2	3409	A6	3513	A2	3558	C1	3615	A3	3638	A3	3750	B4	4506	C1	5309	C1	6504	C1	7501	A5
1303	A6	2214	A4	2331	B3	2507	A6	2534	A2	2627	A2	3119	A6	3147	A4	3319	B2	3411	A6	3514	A5	3559	C1	3616	A2	3639	A3	4100	A5	4605	A3	5401	A6	7100	B6	7502	A6
1304	C2	2301	C2	2332	C5	2508	A5	2535	C2	2628	A2	3120	A6	3148	A4	3320	B2	3414	A5	3515	A6	3560	C1	3617	A3	3640	B6	4101	A4	4606	A2	5420	A6	7103	A4	7503	A5
1401	A6	2302	C4	2333	C1	2509	A2	2536	C2	2629	A3	3121	A6	3149	A4	3321	B2	3415	A5	3516	A5	3561	C1	3618	A2	3641	B6	4102	A6	4607	A2	5502	A6	7104	A4	7504	A5
1402	A5	2303	C2	2334	C1	2510	A2	2537	C6	2630	B3	3122	A6	3150	A4	3322	B3	3420	A6	3517	A6	3562	C1	3619	A2	3642	B6	4104	A6	4610	A3	5504	C2	7200	B5	7505	C1
1403	A6	2304	C3	2335	C1	2511	A6	2538	C6	2631	A3	3123	A6	3156	B6	3323	B3	3421	A6	3519	C6	3563	C1	3620	A2	3643	B6	4105	A6	4700	A4	5505	C2	7201	B6	7507	C1
1500	C1	2306	B3	2336	C3	2512	A6	2539	C1	2632	A3	3124	A6	3157	B6	3324	B4	3422	A6	3520	C6	3564	C1	3621	A3	3644	A3	4106	A6	5100	B6	5507	C2	7202	C6	7510	C1
1600	A1	2308	C3	2337	C4	2513	A5	2543	A5	2633	A3	3125	A6	3158	B6	3325	B4	3423	A6	3521	C6	3565	C1	3622	A3	3700	A4	4107	A6	5101	C6	5508	C2	7203	A4	7511	C1
1601	A3	2309	C3	2403	A6	2514	A5	2550	C2	2634	A3	3126	A6	3159	B6	3326	C3	3424	A6	3522	C6	3566	C2	3624	A3	3701	A4	4109	A6	5102	C6	5511	C6	7300	C3	7512	C1
1603	A4	2310	C3	2405	A6	2515	A6	2551	C1	2635	A3	3200	A6	3160	A6	3327	C3	3500	A6	3526	A2	3567	C1	3625	A3	3702	A4	4110	A6	5103	C6	5512	C6	7301	B5	7513	C1
1700	A4	2311	C4	2406	A6	2520	C6	2553	C1	2700	C5	3128	B6	3207	A3	3328	C4	3501	A5	3527	A2	3568	C1	3626	A2	3703	A4	4200	C5	5200	B5	5513	C6	7302	C5	7514	C1
2100	B6	2314	A6	2411	A6	2521	C2	2554	C2	2701	C5	3131	B6	3209	A4	3329	C3	3502	A6	3528	A5	3569	C1	3627	A2	3705	A4	4201	C5	5201	B5	5514	C6	7303	C3	7600	A3
																																				7601	B2
																																				7602	A2
																																				7605	A3
																																				7606	B6
																																				7700	A4
																																				7701	C5
																																				7702	C5
																																				7703	B5
																																				7704	A4
																																				7705	A5



Layout IBO Zapper (Bottom Side)

1400 A1	2111 B1	2200 C1	2213 C1	2327 B4	2611 A4	2703 B3	3112 B1	3155 B1	3203 B1	3314 C4	3704 B3	3718 A3	3732 B3	3745 B2	4213 B2	6300 C4	7506 C6
2103 B1	2112 B1	2202 B1	2300 C4	2413 A1	2612 A4	2705 B3	3129 B1	3160 B1	3204 B1	3334 C3	3706 B3	3721 A3	3733 B3	3746 B2	4214 B1	6303 C3	
2104 B1	2113 B1	2205 B1	2305 C2	2528 C5	2613 A4	2708 A3	3130 B1	3161 B2	3205 C2	3523 C5	3707 B3	3722 A2	3738 B3	3747 B2	4215 C2	6304 B4	
2105 B1	2114 B1	2207 C1	2312 C4	2540 C6	2615 A4	2710 A3	3132 B1	3162 C1	3212 B1	3537 C6	3708 B3	3726 B2	3739 B3	3748 B2	4302 C3	6305 C2	
2106 B1	2115 B1	2208 C1	2313 B4	2544 A5	2617 A4	2711 A3	3137 B1	3163 B1	3306 C4	3538 C6	3709 A3	3727 A2	3740 B3	3751 B3	4303 C3	6306 C3	
2107 B1	2116 B1	2209 C1	2321 C3	2607 A4	2618 A4	2712 A3	3140 B1	3164 B1	3307 C4	3540 C6	3710 A3	3728 B3	3741 B3	3752 A3	4507 A1	6307 C3	
2108 B1	2119 B1	2210 C1	2322 B4	2608 A4	2619 A4	2714 A3	3142 B1	3200 C2	3311 C4	3606 A5	3712 A3	3729 B3	3742 B4	3999 A3	5528 A4	6400 A1	
2109 B1	2120 B1	2211 C1	2324 C4	2609 A4	2620 A4	2715 B2	3151 B1	3201 B2	3312 C4	3607 A5	3713 A2	3730 B3	3743 B4	4108 B1	5700 B3	7105 B1	
2110 B1	2121 B1	2212 C1	2326 B4	2610 A4	2702 B3	3101 B1	3154 B1	3202 C2	3313 C4	3645 A4	3717 A2	3731 B3	3744 B2	4204 C2	5701 B3	7312 C3	



Personal Notes:

E_06532_013.eps
131004

8. Alignments

Index of this chapter:
8.1 General Alignment Conditions
8.2 Hardware Alignments
8.3 Software Alignments

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

General: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the Cursor Up, Down, Left or Right keys of the remote control transmitter.

8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:
Mains voltage and frequency: 100-240 V / 50/60 Hz.
Allow the set to warm up for approximately 10 minutes.
Test probe: Ri > 10 MΩ; Ci < 2.5 pF.

8.2 Hardware Alignments

There are no hardware alignments foreseen for the plasma-TV.

8.3 Software Alignments

With the software alignments of the Service Alignment Mode (SAM) the geometry, white tone and tuner (IF) can be aligned.
To store the data: Use the RC button Menu to switch to the main menu and next, switch to ‘Stand-by’ mode.

8.3.1 SAM Menu

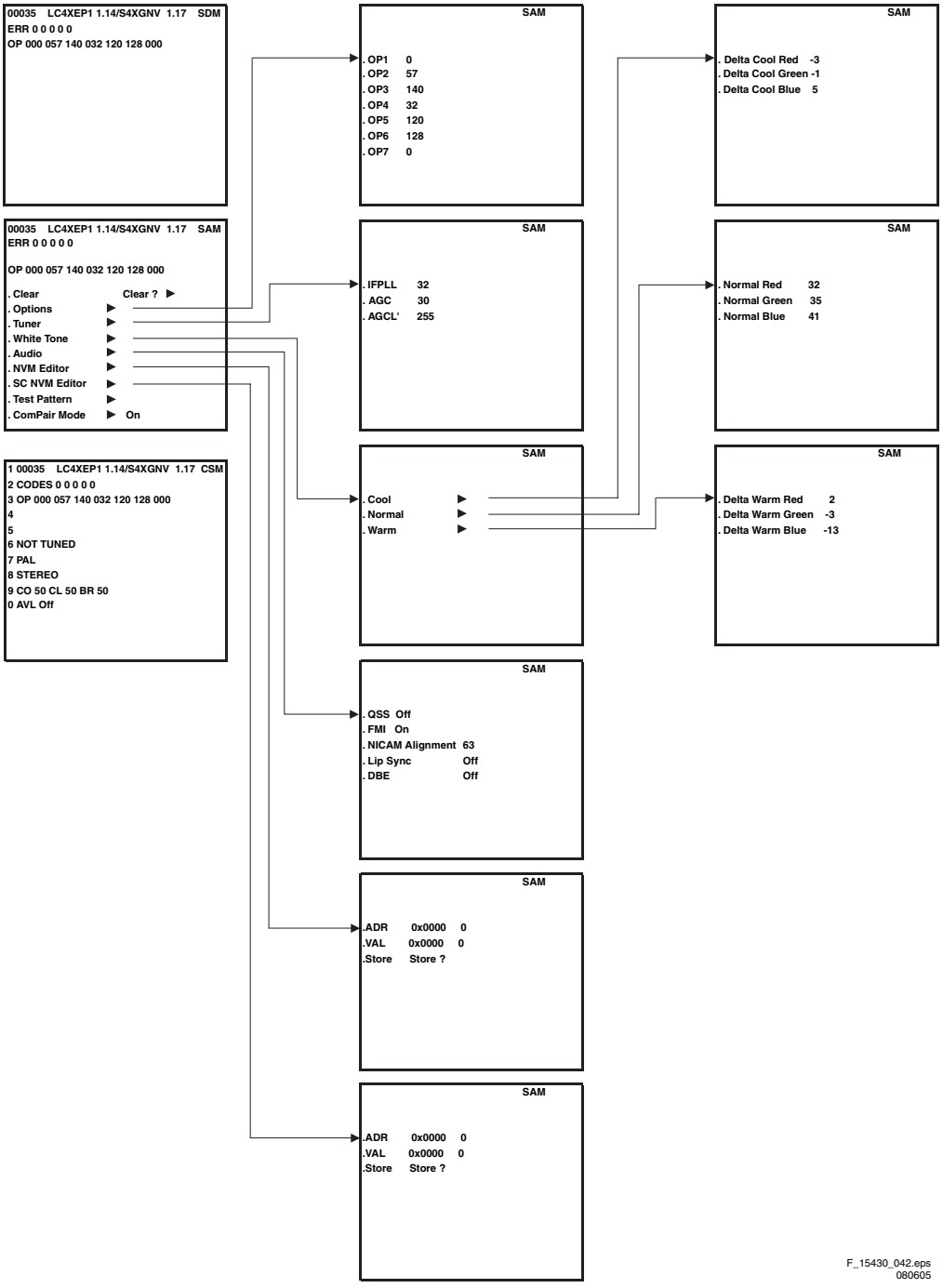


Figure 8-1 Overview SAM menu.

8.3.2 Tuner Adjustment

AGC (RF AGC Take Over Point)

- Activate the SAM menu.
- Go to the sub-menu Tuner.
- Select the AGC sub-menu.
- Adjust the AGC value to AGC = 27.
- Adjust the AGC L' value to AGC L' = 27 (Europe only).
- Adjust the IFPLL value to IFPLL = 32 (Europe only).
- Switch the set to standby to store the data.

8.3.3 DCXO (Digital Xtal Oscillator) Alignment (for NICAM sets only)

- Input a Colour bar signal with a colour subcarier frequency of 4.43 MHz on SCART1 or SCART2.
- Select as a signal source EXT1 or AV1.
- Go to the SAM menu and select Audio.
- Activate DCXO Alignment and wait until this process has finished (DONE).
- Check if the NICAM audio reception is OK, if not: repeat the procedure.
- Switch the set to standby to store the data.

8.3.4 ADC Gain and Grey Scale Alignment

The table below shows a number of NVM settings used for each model of TV set. Be sure to use the correct editor in the SAM menu (NVM Editor or SC NVM Editor), because the first one is used for the Hercules NVM, and the second one for the SCALER (SC) part of the TV set. For further important NVM settings, see also the other NVM tables elsewhere in this manual.

Caution:

- **Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- **Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TV set!**
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the orgininal settings, if the new settings turn out to be incorrect.

Table 8-1 ADC gain and grey scale alignment

SDTV ADC Gain settings: Use the NVM Editor in SAM to set these values in the Hercules NVM				
		These models are with ADC & Columbus 3D Combfilter		
Setting	Hercules NVM Address (decimal value)	42PF7520D/10	42PF5520D/10	Settings Range (decimal value)
NVM_ADC_GAIN_R	006	143	143	075 - 155
NVM_ADC_GAIN_G	007	191	191	200 - 250
NVM_ADC_GAIN_B	008	143	143	075 - 155

SDTV Greyscale settings: Use the SC NVM Editor in SAM to set these values in the Scaler NVM				
		These models are with ADC & Columbus 3D Combfilter		
Setting	Scaler NVM Address (decimal value)	42PF7520D/10	42PF5520D/10	Settings Range (decimal value)
ADC_RED_OFFSET2	338	080	080	050 - 110
ADC_GRN_OFFSET2	339	080	080	050 - 110
ADC_BLU_OFFSET2	340	080	080	050 - 110
ADC_RED_GAIN	341	154	154	045 - 095
ADC_GRN_GAIN	343	154	154	045 - 095
ADC_BLU_GAIN	345	154	154	045 - 095
PC Greyscale settings				
		These models are with ADC & Columbus 3D Combfilter		
Setting	Scaler NVM Address (decimal value)	42PF7520D/10	42PF5520D/10	Settings Range (decimal value)
ADC_RED_OFFSET2	325	080	080	040 - 090
ADC_GRN_OFFSET2	326	080	080	040 - 090
ADC_BLU_OFFSET2	327	080	080	040 - 090
ADC_RED_GAIN	328	154	154	180 - 270
ADC_GRN_GAIN	330	154	154	180 - 270
ADC_BLU_GAIN	332	154	154	180 - 270
HD Greyscale settings				
		These models are with ADC & Columbus 3D Combfilter		
Setting	Scaler NVM Address (decimal value)	42PF7520D/10	42PF5520D/10	Settings Range (decimal value)
ADC_RED_OFFSET2	351	064	064	050 - 090
ADC_GRN_OFFSET2	352	082	082	050 - 090
ADC_BLU_OFFSET2	353	064	064	050 - 090
ADC_RED_GAIN	354	159	159	120 - 200
ADC_GRN_GAIN	356	144	144	120 - 200
ADC_BLU_GAIN	358	147	147	120 - 200

8.3.5 Sound

- For NICAM sets: see paragraph 8.3.3.
- For other sets: No adjustments needed for sound.

8.3.6 Options

Options OP1...OP7 in the SAM menu can be used for quickly restoring 64 features or settings of the HERCULES part of the TV set to their orginal default factory values (8 groups of 8 features/settings each). When the decimal value of one option byte OP1...OP7 is changed (see the first table below) then a group of 8 bits, representing 8 HERCULES options or features, is changed as well (see the second table below for a detailed description of the features or settings that are changed).
The second table shows which option byte (OP1...OP7) represents which group of 8 option bits. Each bit (0...7) switches a particular HERCULES feature or setting ON or OFF, depending on its value (1 or 0).
It is also possible to change the features or settings mentioned in the second table directly at bit level, by means of the NVM Editor in the SAM menu. In the NVM Editor, first the correct NVM address (ADR) has to be entered, then the correct value (VAL, 1 or 0) for each bit (see second table), and finally the settings have to be stored (STORE). For quickly restoring the HERCULES part of the TV set to its original factory settings, however, it is more convenient to simply enter the default factory settings OP1...OP7 that are given in the first table below. How to do this, is described in the next paragraph.

How to Change an Option Byte

As has been explained above, an Option byte (OP) represents a number of different HERCULES options. Changing these bytes directly makes it possible to set all HERCULES options very fast. All options are controlled via seven option bytes. Select the option byte (OP1.. OP7) with the Menu Up/ Down keys, and enter the new (decimal) value. For the correct Factory Default settings, see the first table below. For more detailed information, see the second table.

Leaving the Option submenu saves the changes in the Option Byte settings. Some changes will only take effect after the set has been switched “off” and “on” with the AC power switch (cold start).

Table 8-2 Option codes OP1...OP7

Option table for quickly restoring the HERCULES to its Factory Default settings		
Model number	42PF7520D/10	42PF5520D/10
OP1	152	152
OP2	37	101
OP3	79	15
OP4	241	241
OP5	252	252
OP6	27	27
OP7	19	19
Options (can be changed only via the SAM menu)	Total decimal value for each option per model number	

How to Change Options at Bit Level

If you wish to know which features or settings of the HERCULES are changed via OP1...OP7, or if you want to change each option or feature bit by bit, use the more detailed table below.

Note: the table below contains only part of the NVM settings that can be changed. A second range of settings and features can be found in Chapter 5 of this manual, in table **NVM Default values**. The settings mentioned there can only be changed via the NVM editor. For further settings, see also the table “ADC Gain and Grey scale alignment” elsewhere in this manual.

Table 8-3 Option codes in detail, at bit level

Option byte & bit table for restoring the TV set to its original Factory Default settings via the NVM Editor in the SAM menu			
	Model number	**42PF7520D/10**	**42PF5520D/10**
OP1	**Description of feature/option to be switched ON or OFF**		
bit 7 (msb)	OP_PHILIPS_TUNER	1	1
bit 6	OP_FM_RADIO	0	0
bit 5	OP_LNA	0	0
bit 4	OP_ATS // for EU	1	1
bit 3	OP_ACI	1	1
bit 2	OP_UK_PNP	0	0
bit 1	OP_VIRGIN_MODE	0	0
bit 0 (lsb)	OP_CHINA	0	0
	Total DEC Value	152	152
	Total HEX Value	98	98
OP2			
bit 7 (msb)	OP_SC	0	0
bit 6	OP_IBEX	1	1
bit 5	OP_CHANNEL_NAMING	1	1
bit 4	OP_LTI (Lum Transcient Improvmt)	0	0
bit 3	OP_TILT	0	0
bit 2	OP_FINE_TUNING	1	1
bit 1	OP_PIP_PHILIPS_TUNER	0	0
bit 0 (lsb)	OP_HUE	1	1
	Total DEC Value	101	101
	Total HEX Value	65	65
OP3			
bit 7 (msb)	OP_EW_FUNCTION	0	0
bit 6	OP_PIXEL_PLUS	1	0
bit 5	OP_PIP_SPLITTER // temp	0	0
bit 4	OP_SPLITTER // temp	0	0
bit 3	OP_VIRTUAL_DOLBY	1	1
bit 2	OP_WIDE_SCREEN	1	1
bit 1	OP_WSSB	1	1
bit 0 (lsb)	OP_OP_ME5 // OP_ME5 - 5/6 local buttons implementation	1	1
	Total DEC Value	79	15
	Total HEX Value	4F	0F
OP4			
bit 7 (msb)	OP_LIP_SYNC	1	1
bit 6	OP_HD	1	1
bit 5	OP_ULTRA_BASS	1	1
bit 4	OP_DELTA_VOLUME	1	1
bit 3	OP_TAIWAN_KOREA	0	0
bit 2	OP_VOLUME_LIMITER	0	0
bit 1	OP_STEREO_DBX	0	0
bit 0 (lsb)	OP_STEREO_NICAM_2CS	1	1
	Total DEC Value	241	241
	Total HEX Value	F1	F1
OP5			
bit 7 (msb)	OP_AV1	1	1
bit 6	OP_AV2	1	1
bit 5	OP_AV3	1	1
bit 4	OP_CVI	1	1
bit 3	OP_SVHS2	1	1
bit 2	OP_SVHS3	1	1
bit 1	OP_HOTEL_MODE	0	0
bit 0 (lsb)	OP_SIMPLY_FACTORY=OP_BTSC_AVSTEREO	0	0
	Total DEC Value	252	252
	Total HEX Value	FC	FC
OP6			
bit 7 (msb)	OP_PERSONAL_ZAPPING	0	0
bit 6	OP_SMART_SURF	0	0
bit 5	OP_FMTRAP	0	0
bit 4	OP_COMBFILTER	1	1
bit 3	OP_ACTIVE_CONTROL	1	1
bit 2	OP_VIDEO_TEXT	0	0
bit 1	OP_LIGHT_SENSOR	1	1
bit 0 (lsb)	OP_TWIN_TEXT	1	1
	Total DEC Value	27	27
	Total HEX Value	1B	1B
OP7			
bit 7 (msb)	OP_TIME_WIN1	0	0
bit 6	OP_DVB_USB = OP_MALAY	0	0
bit 5	OP_AMBILIGHT	0	0
bit 4	OP_COLUMBUS	1	1
bit 3	OP_DUMMY6	0	0
bit 2	OP_DUMMY7	0	0
bit 1	OP_WEST_EU	1	1
bit 0 (lsb)	OP_MULTI_STANDARD_EUR	1	1
	Total DEC Value	19	19
	Total HEX Value	03	03

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

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9.4 PNx83xx MOJO
9.5 Front End
9.6 Back End
9.7 IBOLink Interface
9.8 Control Interface
9.9 UART Interface
9.10 Power Supply IBO Zapper Module
9.11 Abbreviation List
9.12 IC Data Sheets

9.1 Introduction

The Digital Video Broadcasting (DVB) TV sets/models discussed in this manual are a combination of a standard TV set and an IBO zapper module. For a description of the original TV sets (without an IBO zapper module), see the LC4.9E AA manual, order code 3122 785 15432. The table below shows the original models of TV sets on which the IBO zapper models are based, together with the various picture qualities globally available (the Crystal Clear version is not applicable to the TV sets discussed in this manual).

Table 9-1 TV Models and Picture Quality

IBO Zapper Model	Original TV Model	Picture quality
42PF7520D/10	42PF7320/10	Pixel Plus
42PF5520D/10	42PF5320/10	Digital Crystal Clear
N.a.	N.a.	Crystal Clear

9.2 IBO Zapper Module

The “IBO Zapper” module is meant to receive, process, and transfer Digital Video Broadcasting-Terrestrial (DVB-T) signals to the internal TV interface for audio, video, and control. The “IBO Zapper” is intended for use in combination with an analogue TV chassis.

9.3 Block diagram IBO Zapper Module

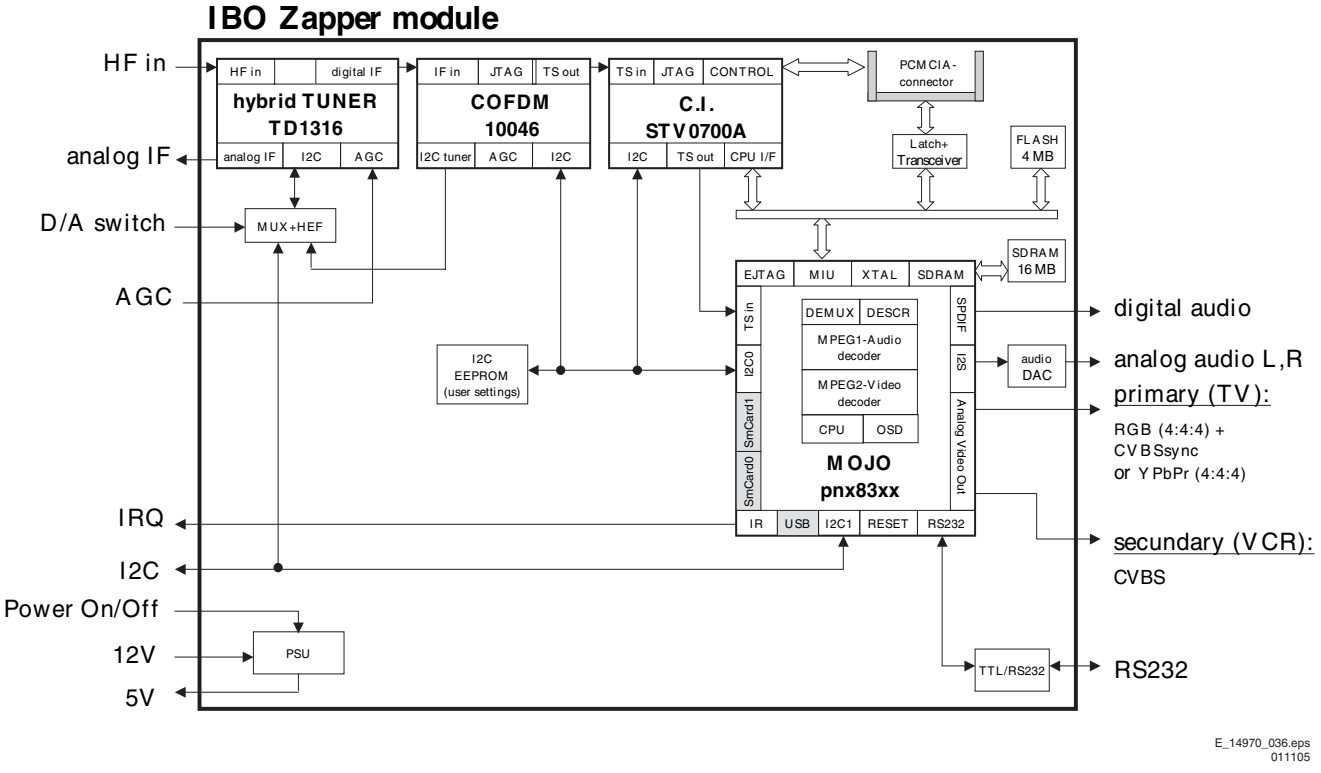


Figure 9-1 Block Diagram IBO zapper module

9.4 PNx83xx MOJO

The MOJO is a source decoder chip targeted for very low cost application in integrated digital televisions.The device contains all hardware and software to be able to decode and display MPEG2 transport streams, including:

- Descrambling
- Demultiplexing
- Audio / video decompression
- Video encoding.
- Overlay graphics provisions

Some features of the MOJO are:

- 32-bit PR1910 core operating at 120 MHz.
- 16-bit memory and peripheral interface to connect ROM, NOR Flash and various peripherals.
- Sixteen external interrupt inputs shared with PIO lines.
- Several embedded peripheral units with physical interfaces to:
  - Two UART (RS-232) data ports
  - Two I^2C master / slave transceivers
  - Two smart-card reader interfaces
  - One Integrated Conditional Access Module interface
- Supports parallel and serial transport stream input interfaces

9.5 Front End

The front end of the “IBO Zapper” module is almost identical to the “IBO+” module as used in the A10E with the exception that the Transport Streams that come from the COFDM demodulator are now fed through the PCMCIA controller first. The PCMCIA controller receives encrypted Transport Streams from the COFDM demodulator. Via the PCMCIA card, these encrypted Transport Streams are decrypted, and transported to the MOJO.

9.6 Back End

The MOJO is the main building block of the back-end of the “IBO Zapper” module. The IC decodes the MPEG-2 stream into analogue video and digital audio.

9.6.1 Transport Stream Input

The Transport Stream input is according to MPEG2 standard. In the “IBO Zapper”, only 8-bit parallel is supported. The used TS names are TDA_DATA.

9.6.2 Video Outputs

The MOJO has two analogue video outputs:

- Primary (TV): YUV + RGB
- Secundary (VCR): CVBS

The primary MOJO output is used as input for the TV display and is fed either to the Hercules YUV/RGB input (pins 78/79/80), for teletext insertion purposes, or directly to the analogue Scaler input D2/C2/B2. The signal path is as follows:
switch 7G09 chooses between the SCART1 input signal and the YUV/RGB output of the MOJO. The signal selected by switch 7G09 is passed on to one group of the inputs of switch 7E00. The other group of inputs of this switch is connected to the three analogue input pins of the DVI-D connector. The output signal of switch 7E00 is passed on to the Hercules input, pins 78/79/80 and to the Scaler input D2/C2/B2 via switch 7E01 in the MUX-SYNC interface. This switch chooses between the MOJO output signal and the Hercules output signal, which is used for SDTV signals (analogue terrestrial TV reception via the analogue receiving part). The Hercules output is not only used for SDTV signals, but also for MOJO output signals that were first sent to the Hercules input for e.g. teletext reinsertion purposes before they are passed on to the Scaler.
The secundary MOJO output, which delivers CVBS signals, is used for monitoring purposes or for recording via the SCART 2 output of the TV set. The signal path of the secundary MOJO output is as follows:
the CVBS/VCR signal coming from the MOJO is sent to the Hercules video switch input, pin 58, via switch 7G07. The signal then appears on one of the outputs of the Hercules video switch, pin 48, and is passed on via switches 7219 and 7G10 to pin 19 of SCART 2, which is the CVBS/monitor output.
For further details, see the manuals of the original TV sets on which the various models of IBO zappers are based.

9.6.3 Audio Outputs

The MOJO has two audio output interfaces:

- SPDIF Out: The SPDIF sound output goes directly to a connector on the back of the module.
- I2S Out: This digital sound output is fed through a DAC and the analogue L/R signals are directely fed into the Hercules.

9.7 IBOLink Interface

The IBOLink™ approach is such that the conventional TV microcontroller is re-used when digital functionality is added. In principle, the TV can still operate without the bolt-on module. The IBOLink™ software is added to the TV-set software, and is operating as a software bridge.

9.8 Control Interface

The “IBO Zapper” is connected as a slave I^2C device, The I^2C bus should be +5V tolerable and operating at 100kHz(MAX). The “IBO Zapper” module slave address is 0xE4 (similar to IBO+) but is configurable via IBOLink.

All communication from digital module to Television chassis has to be initiated via an active low hardware interrupt line from the digital module.

9.9 UART Interface

The UART interfaces (Universal Asynchronous Receiver And Transmitter) are serial interfaces, which are used to transfer data and commands between two devices.

The “IBO Zapper” system uses an UART interface for serial communication with a pc for:

- Diagnostic SW for Service or Production
- SW uploading for Service or Development

9.10 Power Supply IBO Zapper Module

The “IBO Zapper” module operates from a single 12V supply provided by the TV chassis. All other voltages that the module needs are derived from the +12V. The module has four different physical power states:

- “Off” State.
- “Passive Standby”.
- “Active Standby”.
- “On” State.

9.10.1 Off State

The set is powered off via the main power switch. The module is not powered.

9.10.2 Passive Standby State

The set is in standby mode. The module is in off state.

9.10.3 Active Standby State

The set is in “Semi-Standby” mode. All the circuits in the set, except the audio output and the LCD display are powered up and fully active. The set appears to be in normal standby mode for the customer.

The module is in “On” or “Logical Standby” state.

- On state. In this state the module can perform the following pre-programmed functions:
  - VCR (digital program) records
  - EPG updates
  - Over-the-air software download signaling detection and software downloads
- Logial Standby state. In this state only over-the-air software download signaling detection and software downloads can be performed.

9.10.4 On State

The set is fully functional and the module is powered up. The module is in “On” or “Logical Standby” state.

- On state. In this state all system functionality is available or the module is in software downloading process.
- Logial Standby state. In this state only over-the-air software download signaling detection and software downloads can be performed.

9.11 Abbreviation List

0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format
1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2CS	2 Carrier Sound (or 2 Channel Stereo)
480i	480 visible lines, interlaced
480p	480 visible lines, progressive scan
ACI	Automatic Channel Installation: algorithm that installs TV channels directly from a cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control; Control signal used to tune and lock to the correct frequency
AGC	Automatic gain control (feedback) signal to the tuner. This circuit ensures a constant output amplitude regardless of the input amplitude
AM	Amplitude Modulation; A "data encoding to a carrier" method, such that the carrier amplitude is proportional to the data value
AP or A/P	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASD	Automatic Standard Detection
AV	External Audio Video
B-SC1-IN	Blue SCART1/EXT1 in
B-SC2-IN	Blue SCART2/EXT2 in
B-TXT	Blue TeleteXT
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz. B= VHF-band, G= UHF-band
BOCMA	Bimos one Chip Mid-end Architecture: video and chroma decoder
C-FRONT	Chrominance front input
CBA	Circuit Board Assembly (also called PCB or PWB)
CL	Constant Level: audio output to connect with an external amplifier
CLUT	Colour Look-Up Table
COLUMBUS	COLour LUMinance Baseband Universal Subsystem. IC performing noise reduction and 2D/3D comb filtering
ComPair	Computer aided rePair. A tool for diagnosing a TV through a PC controlled interface
CSM	Customer Service Mode
CVBS	Composite Video and Blanking Signal; A single video signal that contains luminance, colour, and timing information
CVBS-EXT	CVBS signal from external source (VCR, VCD, etc.)
CVBS-INT	CVBS signal from internal Tuner
CVBS-MON	CVBS monitor signal
CVBS-TER-OUT	CVBS TERrestrial OUTput signal
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DFU	Directions For Use: Owner's manual
DNR	Dynamic Noise Reduction / Digital Noise Reduction; Noise reduction feature of the set
DRAM	Dynamic RAM; dynamically refreshed RAM
DSP	Digital Signal Processing
DST	Dealer Service Tool; Special remote control designed for dealers to enter

	e.g. service mode (a DST-emulator is available in ComPair)
DTS	Digital Theatre System; A multi-channel surround sound format, similar to Dolby Digital
DVB	Digital Video Broadcast; A method of transmitting digital audio and video, based on MPEG2
DVB-T	DVB-Terrestrial; HDTV standard for the EU
DVD	Digital Versatile Disc
EEPROM	Electrically Erasable and Programmable Read Only Memory
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTView)
EU	Europe
EXT	EXTernal (source), entering the set by SCART or by cinches (jacks)
FBL	Fast BLanking; DC signal accompanying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level
FBL-SC1-IN	Fast blanking signal for SCART1 in
FBL-SC2-IN	Fast blanking signal for SCART2 in
FBL-TXT	Fast Blanking Teletext
FM	Field Memory; A memory chip that is capable of storing one or more TV picture fields / Frequency Modulation; A technique that sends data as frequency variations of a carrier signal
FMR	Radio receiver that can receive the FM Band 87.5 - 108 MHz
FRC	Frame Rate Converter
FRONT-C	Front input chrominance (SVHS)
FRONT-DETECT	Control line for detection of headphone insertion, Service Mode jumper, power failure detection
FRONT-Y_CVBS	Front input luminance or CVBS (SVHS)
G-SC1-IN	Green SCART1/EXT1 in
G-SC2-IN	Green SCART2/EXT2 in
G-TXT	Green teletext
H	H_sync to the module
HA	Horizontal Acquisition; horizontal sync pulse
HD	High Definition
HP	HeadPhone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band
I^2C	Integrated IC bus
I^2S	Integrated IC Sound bus
IC	Integrated Circuit
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IR	Infra Red
IRQ	Interrupt ReQuest
Last Status	The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences
LATAM	LATin AMerica
LC04	Philips chassis name for LCD TV 2004 project
LCD	Liquid Crystal Display
LED	Light Emitting Diode; A semiconductor diode that emits light when a current is passed through it
LINE-DRIVE	Horizontal (line) deflection drive signal (for the Line transistor)
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
LS	LoudSpeaker
LVDS	Low Voltage Differential Signalling, data transmission system for high speed and low EMI communication.
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
MPEG	Motion Pictures Experts Group. An ISO/IEC body that has given its name to an image compressing scheme for moving video
MSP	Multi-standard Sound Processor: ITT sound decoder
MUTE	MUTE Line
NC	Not Connected
NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe
NTSC	National Television Standard Committee. Colour system used mainly in North America and Japan. Colour carrier NTSC M/N = 3.579545 MHz, NTSC 4.43 = 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non Volatile Memory; IC containing data such as alignment values, preset stations
O/C	Open Circuit
ON/OFF LED	On/Off control signal for the LED
OSD	On Screen Display
PAL	Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.433619 MHz) and South America (colour carrier PAL M = 3.575612 MHz and PAL N = 3.582056 MHz)
PC	Personal Computer
PCB	Printed Circuit Board (or PWB)
PIG	Picture In Graphic
PIP	Picture In Picture
PLL	Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PWB	Printed Wiring Board (also called PCB or CBA)
RAM	Random Access Memory
RC	Remote Control transmitter
RC5 or 6	Remote Control system 5 or 6, the signal from the remote control receiver
RGB	Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced
RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
ROM	Read Only Memory
SAM	Service Alignment Mode
SC	SandCastle: two-level pulse derived from sync signals

SC-IN	SCART in
SC-OUT	SCART out
S/C	Short Circuit
SCART	Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs; This is a 21-pin connector used in EU, that carries various audio, video, and control signals (it is also called Péritel connector)
SCL	Serial CLock Signal on I^2C bus
SD	Standard Definition
SDA	Serial DAta Signal on I^2C bus
SDRAM	Synchronous DRAM
SECAM	SÉquence Couleur Avec Mémoire; Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switched Mode Power Supply
SND	SouND
SNDL-SC1-IN	Sound left SCART1 in
SNDL-SC1-OUT	Sound left SCART1 out
SNDL-SC2-IN	Sound left SCART2 in
SNDL-SC2-OUT	Sound left SCART2 out
SNDR-SC1-IN	Sound right SCART1 in
SNDR-SC1-OUT	Sound right SCART1 out
SNDR-SC2-IN	Sound right SCART2 out
SNDR-SC2-OUT	Sound right SCART2 out
SOPS	Self Oscillating Power Supply
S/PDIF	Sony Philips Digital InterFace; This is a consumer interface used to transfer digital audio
SRAM	Static RAM
STBY	STandBY
SVHS	Super Video Home System
SW	Software or Subwoofer or Switch
THD	Total Harmonic Distortion
TXT	Teletext; TXT is a digital addition to analogue TV signals that contain textual and graphical information (25 rows x 40 columns). The information is transmitted within the first 25 lines during the Vertical Blank Interval (VBI)
uP	Microprocessor
VA	Vertical Acquisition
VL	Variable Level out: processed audio output towards external amplifier
VCR	Video Cassette Recorder
VGA	Video Graphics Array; 640x480 (4:3)
WD	Watch Dog
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XTAL	Quartz crystal
Y	Luminance signal
Y/C	Y consists of luminance signal, blanking level and sync; C consists of chroma (colour) signal
YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals

9.12 IC Data Sheets

This section shows the internal block diagrams and pin layouts of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

9.12.1 Diagram K1, PNx83xx (IC7100)

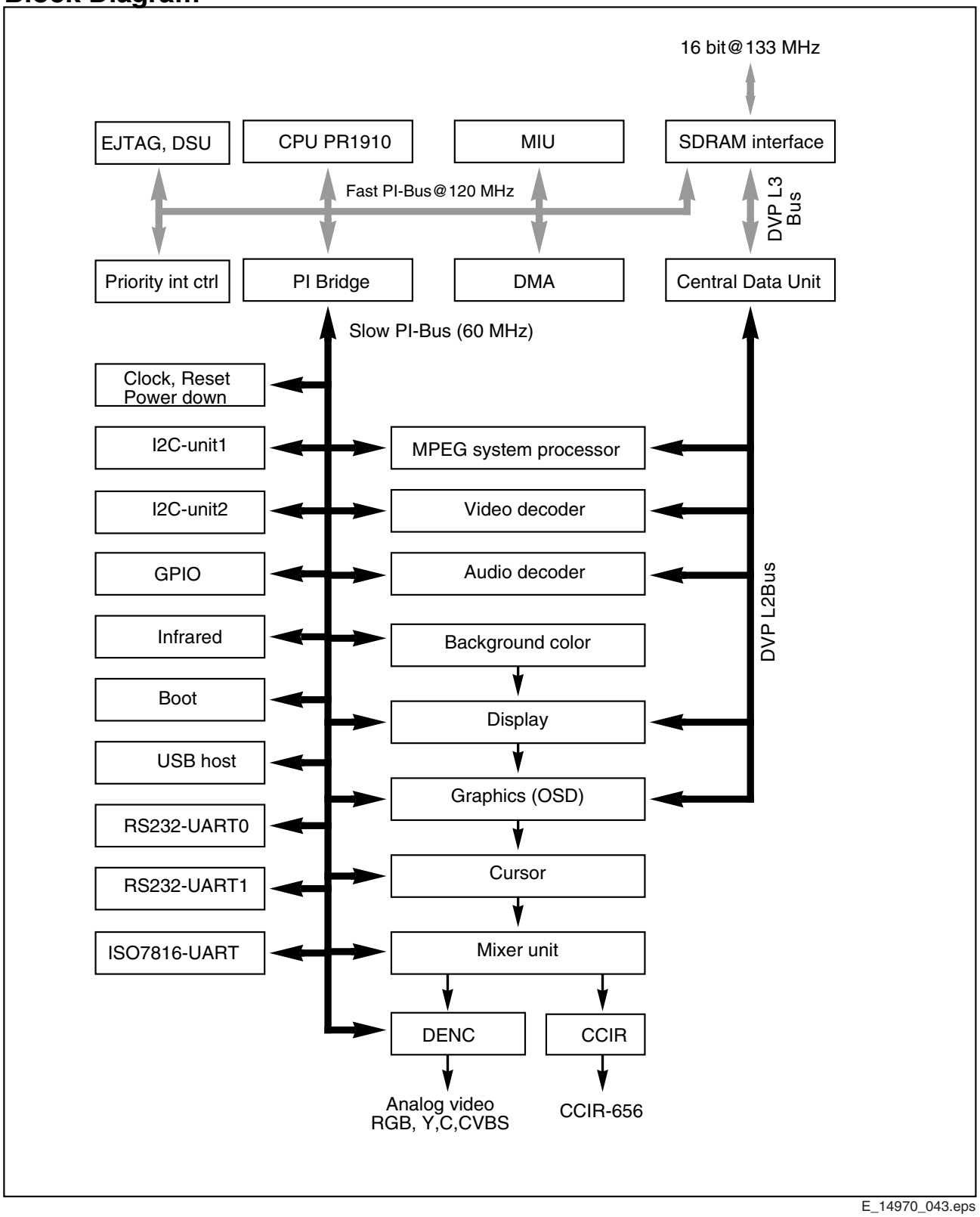


Figure 9-2 PNx831x architecture and data paths

9.12.2 Diagram K6, TDA10046 (IC7600)

Block Diagram

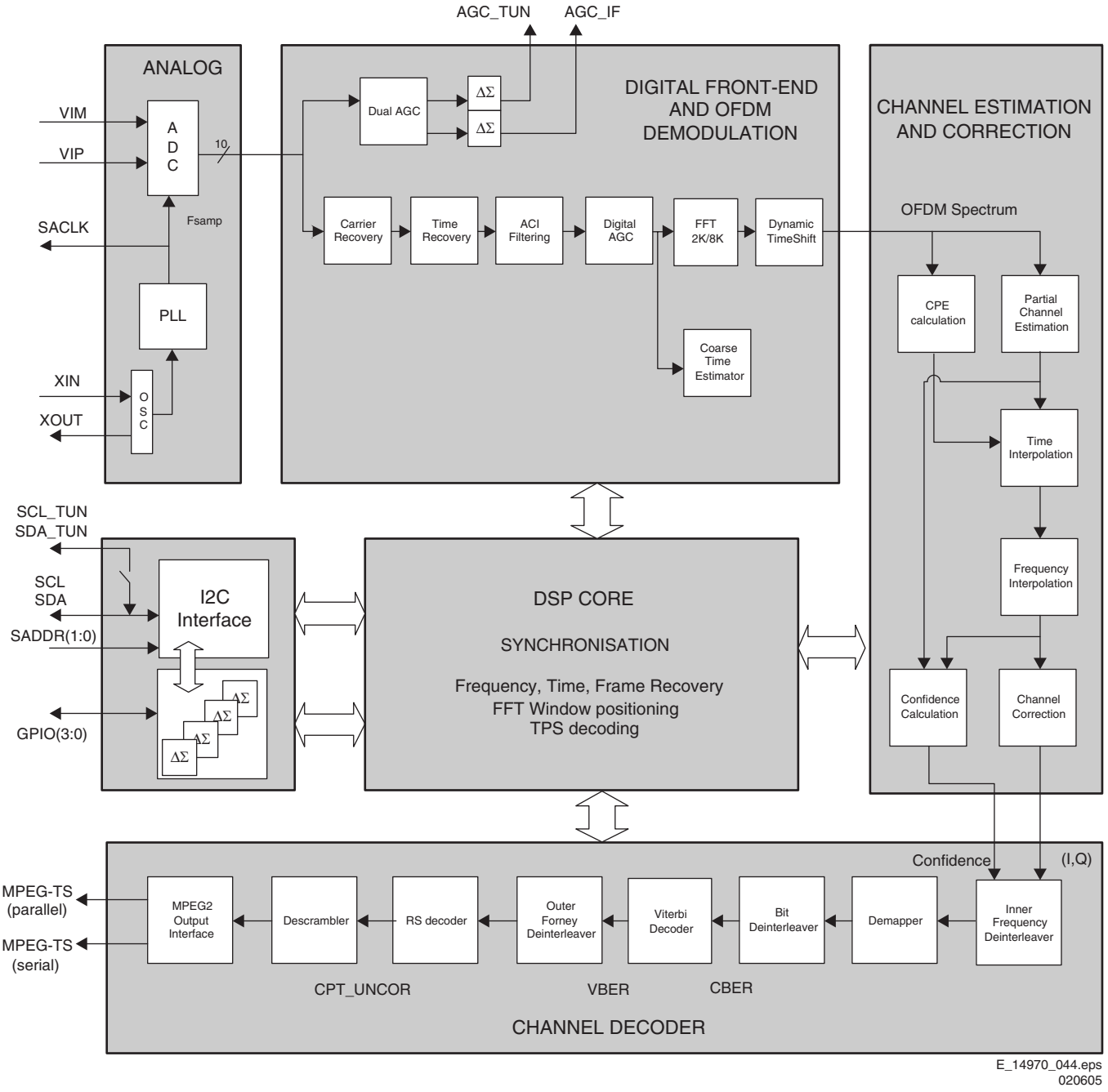


Figure 9-3 Internal blockdiagram TDA10046

10. Spare Parts List

Set Levels per CTN

42PF5520D/10

1004⚠	9322 224 88682	PDP PDP42V7A062
1004⚠	9322 226 61682	PDP PDP42V7K062
1004⚠	9322 233 81682	PDP PP42SD015F
1012	3104 328 39571	LED Panel [J]
1014	3104 328 39561	Side Control Assy [E]
1062	2422 549 00148	Socket 3p m
1062	2422 549 00151	Socket 3p m
1081	3139 188 85021	IBO Zapper [K]
1116	3104 328 40501	Side I/O Assy [G] 42"/50"
1174	3104 328 40312	Audio-Stdby Assy [C]
8101	3104 311 10751	Cable 3p/1K7/3p
8102	3104 311 03601	Cable 7p/400/7p
8102	3104 311 07241	Cable 7p/1000/7p
8103	3104 311 07391	Cable 10p/220/10p
8103	3104 311 08821	Cable 10p/400/10p
8120	3104 311 07421	Cable 6p/680/6p
8136	3104 311 10733	Cable 11p/1000/11p
8146	3104 311 06991	Cable 11p/280/11p
8146	3104 311 08621	Cable 11p/220/11p
8150	3104 311 08831	Cable 31p/300/31p
8150	3104 311 10492	Cable 31P/220/31P
8152	3104 311 09921	Cable 9p/680/9p
8301	3139 131 06371	Cable 04P/220/03P
8301	3139 131 06501	Cable 04p/340/03p
8321	3104 311 08731	Cable Posi/100/posi
8500	3139 131 05861	Cable 32P/280/32P
8600	3139 131 03761	Cable Phono/280/Phono
8735	3104 311 10601	Cable 2p3/1400/Posi
8736	3104 311 10591	Cable 2p3/1000/Posi
8900	3104 311 07911	Cable ring/180/ring

⎓

5213	2441 257 30020	Loudsp. 8Ω 10W
5214	2441 257 30020	Loudsp. 8Ω 10W

Software (see Philips Service Website)

7050
7051
7055

42PF7520D/10

1004	9322 225 38682	PDP S42AX-YD01
1004⚠	9322 227 20682	PDP FPF42C128128UE
1005	3104 328 42741	PDP FHP PSU [A]
1012	3104 328 39571	LED Panel [J]
1014	3104 328 39561	Side Control Assy [E]
1062	2422 549 00148	Socket 3p m
1062	2422 549 00151	Socket 3p m
1081	3139 188 85021	IBO Zapper [K]
1116	3104 328 40501	Side I/O Assy [G] 42"/50"
1174	3104 328 40312	Audio-Stdby Assy [C]
8101	3104 311 10751	Cable 3p/1K7/3p
8102	3104 311 03241	Cable 7p/280/7p Wh
8102	3104 311 07241	Cable 7p/1000/7p
8103	3104 311 06511	Cable 10p/280/10p
8103	3104 311 07971	Cable 10p/280/10p
8120⚠	3104 311 06941	Cable 6p/680/6p
8120⚠	3104 311 07421	Cable 6p/680/6p
8136	3104 311 10733	Cable 11p/1000/11p
8146	3104 311 08621	Cable 11p/220/11p
8150	3104 311 08082	Cable 31p/350/30p
8150	3104 311 08831	Cable 31p/300/31p
8152⚠	3104 311 09921	Cable 9p/680/9p
8202⚠	3104 311 08651	Cable 9p/340/9p
8301	3139 131 06371	Cable 04P/220/03P
8301	3139 131 06771	Cable PH 04P/820/03P
8321	3104 311 08731	Cable Posi/100/posi
8323	3104 311 10361	Cable 10p/280/10p
8500	3139 131 05861	Cable 32P/280/32P
8600	3139 131 03761	Cable Phono/280/Phono
8735	3104 311 10601	Cable 2p3/1400/Posi
8736	3104 311 10591	Cable 2p3/1000/Posi
8900⚠	3104 311 07911	Cable ring/180/ring
8900⚠	3104 311 08251	Wire ring/180/Posi

⎓

5213	2441 257 30020	Loudsp. 8Ω 10W
5214	2441 257 30020	Loudsp. 8Ω 10W

Software (see Philips Service Website)

7050
7051
7052
7055

PDP FHP Supply Panel (.1) [A]

Various

0308	4822 265 20723	Connector 2p
0309	4822 267 10973	Connector 1p
0311	2422 025 10769	Connector 9p m
0323	2422 025 15085	Connector 10p m
0342	4822 267 10618	Connector 7p
0352	4822 267 10618	Connector 7p
1002	4822 267 10618	Connector 7p
1004	2422 086 00676	Fuse 2A T 250V
1082	2422 086 00677	Fuse 2.5A T 250V
1083	2422 086 00677	Fuse 2.5A T 250V
1084	2422 086 10849	Fuse 1A F 250V
1110	2422 086 00678	Fuse 5A T 250V
1200	2422 086 00676	Fuse 2A T 250V
1260	4822 252 51186	Fuse 2A
1400	4822 070 36302	Fuse 6.3A
1402	4822 252 60151	Surge protect
1450	4822 280 10382	SDT-SS-109DM
1460	4822 280 10382	SDT-SS-109DM
1M03	2422 025 10771	Connector 10p m
1M05	2422 025 16374	Connector 2p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m

⊣⊢

2000	2022 554 04155	470pF 20% 250V
2001	2222 338 22474	470nF 20% 275V
2005	2238 867 18101	100pF 1% 50V 0603
2006	2020 552 96618	1nF 10% 50V 0402
2007	2238 586 59812	100nF 20% 50V 0603
2008	5322 126 11583	10nF 10% 50V 0603
2009	3198 030 82280	2.2µF 20% 50V
2010	5322 126 11583	10nF 10% 50V 0603
2011	2222 375 24153	15nF 5% 1kV
2012	4822 126 11254	330pF 10% 2kV
2013	4822 126 11254	330pF 10% 2kV
2014	4822 126 13862	1.5nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	3198 030 82280	2.2µF 20% 50V
2017	2222 375 24153	15nF 5% 1kV
2018	2238 867 18101	100pF 1% 50V 0603
2019	2022 554 04155	470pF 20% 250V
2020	2020 024 90737	3300µF 20% 100V
2021	2020 024 90737	3300µF 20% 100V
2022	2020 021 91354	1000µF 20% 50V
2023	2222 580 15649	100nF 10% 50V 0805
2024	3198 035 03320	3.3nF 5% 50V 0402
2025	4822 124 12084	1µF 20% 50V
2026	2020 552 96623	2.2nF 10% 50V 0402
2027	2020 552 96631	15nF 10% 16V 0402
2028	2238 930 11541	220pF 5% 200V
2029	2238 930 11541	220pF 5% 200V
2030	2238 586 59812	100nF 20% 50V 0603
2031	2020 552 96628	10nF 10% 16V 0402
2032	2238 586 15641	22nF 10% 50V 0603
2033	2238 586 59812	100nF 20% 50V 0603
2034	4822 126 14525	47pF 5% 1kV
2035	2020 552 96618	1nF 10% 50V 0402
2036	2238 586 15641	22nF 10% 50V 0603
2037	4822 126 14525	47pF 5% 1kV
2038	2020 552 96618	1nF 10% 50V 0402
2039	2020 552 96623	2.2nF 10% 50V 0402
2040	3198 034 02790	47pF 1% 50V 0402
2041	2238 869 15101	100pF 5% 50V 0402
2042	3198 035 03310	330pF 5% 50V 0402
2043	4822 124 12084	1µF 20% 50V
2044	2238 930 11541	220pF 5% 200V
2045	2238 930 11541	220pF 5% 200V
2046	2252 568 08305	33pF 5% 500V
2047	2238 586 59812	100nF 20% 50V 0603
2048	2020 552 96683	220nF 10% 50V
2049	2238 867 18101	100pF 1% 50V 0603
2050	2238 586 15641	22nF 10% 50V 0603
2051	4822 122 33177	10nF 20% 50V
2052	4822 124 12056	1000µF 20% 35V
2053	2022 031 00308	22µF 20% 35V
2054	2020 552 00216	220pF 5% 50V 0402
2055	2020 552 96621	1.5nF 10% 50V 0402
2056	2020 552 00216	220pF 5% 50V 0402
2057	2020 552 96621	1.5nF 10% 50V 0402
2058	4822 124 41828	1µF 20% 250V
2059	2238 586 59812	100nF 20% 50V 0603
2060	2020 552 96683	220nF 10% 50V
2061	2238 586 59812	100nF 20% 50V 0603
2062	3198 030 82280	2.2µF 20% 50V
2070	2020 552 96618	1nF 10% 50V 0402
2071	2020 552 96618	1nF 10% 50V 0402
2090	2020 021 91729	4.7µF 20% 35V
2112	2020 552 96618	1nF 10% 50V 0402
2113	4822 124 12379	220µF 25V
2114	2020 552 96683	220nF 10% 50V
2117	2222 780 15656	330nF 10% 16V
2118	4822 126 13449	1nF 10% 2kV
2121	2020 024 90736	2200µF 20% 100V
2122	4822 121 51319	1µF 10% 63V
2123	3198 035 03320	3.3nF 5% 50V 0402
2126	2238 586 59812	100nF 20% 50V 0603
2133	4822 124 81151	22µF 50V
2203	2238 586 59812	100nF 20% 50V 0603
2205	2020 021 91729	4.7µF 20% 35V
2210	4822 124 80151	47µF 16V
2211	3198 035 04710	470pF 50V 0402
2212	2020 552 96326	220nF 10% 16V
2213	3198 035 03320	3.3nF 5% 50V 0402
2214	3198 035 03320	3.3nF 5% 50V 0402
2215	3198 035 04710	470pF 50V 0402
2217	2222 780 15656	330nF 10% 16V
2218	2222 375 90141	3.3nF 1.6kV 5%
2222	2238 869 15101	100pF 5% 50V 0402
2223	2238 869 15101	100pF 5% 50V 0402
2225	2020 021 91551	2200µF 20% 25V
2226	2238 586 59812	100nF 20% 50V 0603
2227	2238 869 15101	100pF 5% 50V 0402
2229	2020 021 00036	470µF 20% 16V
2230	2020 021 00036	470µF 20% 16V
2231	4822 124 80151	47µF 16V
2232	2238 869 15101	100pF 5% 50V 0402
2234	2022 552 05679	1µF 10% 16V 0805
2236	4822 124 23002	10µF 16V
2237	4822 124 23002	10µF 16V
2261	3198 026 51020	1000µF 50V
2263	2222 861 15272	2.7nF 5% 50V 0805
2264	4822 126 14583	470nF 10% 16V 0805
2265	3198 035 03310	330pF 5% 50V 0402
2266	2020 021 91729	4.7µF 20% 35V
2267	5322 122 32531	100pF 5% 50V
2268	2020 552 96683	220nF 10% 50V
2269	4822 123 14025	2200µF 20% 16V
2270	4822 124 40433	47µF 20% 25V
2273	2238 586 59812	100nF 20% 50V 0603
2274	2020 552 96628	10nF 10% 16V 0402
2290	5322 126 11583	10nF 10% 50V 0603
2291	3198 035 04710	470pF 50V 0402
2292	3198 026 51020	1000µF 50V
2293	3198 035 04710	470pF 50V 0402
2294	3198 026 51020	1000µF 50V
2295	3198 035 04710	470pF 50V 0402
2296	3198 035 04710	470pF 50V 0402
2304	2020 552 96618	1nF 10% 50V 0402
2305	2238 586 59812	100nF 20% 50V 0603
2306	2238 586 59812	100nF 20% 50V 0603
2322	2238 586 59812	100nF 20% 50V 0603
2324	2238 586 59812	100nF 20% 50V 0603
2343	3198 030 82280	2.2µF 20% 50V
2350	4822 124 12095	100µF 20% 16V
2352	2238 586 59812	100nF 20% 50V 0603
2364	2238 586 59812	100nF 20% 50V 0603
2376	2238 586 59812	100nF 20% 50V 0603
2377	2238 586 59812	100nF 20% 50V 0603
2381	2238 586 59812	100nF 20% 50V 0603
2385	2020 552 96628	10nF 10% 16V 0402
2386	2020 552 96628	10nF 10% 16V 0402
2387	4822 124 12095	100µF 20% 16V
2388	2020 552 96628	10nF 10% 16V 0402
2389	2020 552 96618	1nF 10% 50V 0402
2390	2020 552 96618	1nF 10% 50V 0402
2397	4822 124 12095	100µF 20% 16V
2398	4822 124 23002	10µF 16V
2400	2222 338 22474	470nF 20% 275V
2401	2222 338 22474	470nF 20% 275V
2404	4822 126 14525	47pF 5% 1kV
2405	2022 554 04155	470pF 20% 250V
2406	4822 126 14525	47pF 5% 1kV
2407	2022 554 04155	470pF 20% 250V

2465	4822 124 12095	100µF 20% 16V
2502	2238 869 15101	100pF 5% 50V 0402
2503	2020 024 90708	47µF 400V 20%
2504	2020 552 96618	1nF 10% 50V 0402
2505	3198 026 51020	1000µF 50V
2507	2238 869 15101	100pF 5% 50V 0402
2508	4822 124 12095	100µF 20% 16V
2509	2238 869 15101	100pF 5% 50V 0402
2510	2020 021 91506	1000µF 20% 16V
2511	2238 586 59812	100nF 20% 50V 0603
2512	2238 586 59812	100nF 20% 50V 0603
2513	2222 580 15649	100nF 10% 50V 0805
2532	4822 124 12095	100µF 20% 16V
2533	4822 124 12095	100µF 20% 16V
2534	2022 552 05679	1µF 10% 16V 0805
2540	4822 124 12095	100µF 20% 16V
2541	4822 124 12095	100µF 20% 16V
2542	2238 586 59812	100nF 20% 50V 0603
2600	4822 122 33799	1nF 10% 1kV
2601	4822 122 33799	1nF 10% 1kV
2602	2020 552 96623	2.2nF 10% 50V 0402
2603	2222 383 90136	1µF 5% 400V
2605	2222 383 90136	1µF 5% 400V
2608	2020 552 96618	1nF 10% 50V 0402
2610	4822 121 70584	1.8nF 5% 2kV
2611	4822 126 12263	220pF 10% 2kV
2612	2020 552 96618	1nF 10% 50V 0402
2614	2020 552 96623	2.2nF 10% 50V 0402
2616	4822 124 12415	220µF 20% 400V
2617	4822 124 12415	220µF 20% 400V
2640	3198 035 04710	470pF 50V 0402
2642	2020 552 96618	1nF 10% 50V 0402
2651	2020 552 96628	10nF 10% 16V 0402
2653	3198 035 06810	680pF 5% 50V 0402
2654	4822 124 80151	47µF 16V
2655	2022 552 05679	1µF 10% 16V 0805
2656	2222 580 15649	100nF 10% 50V 0805
2660	4822 126 13881	470pF 5% 50V
2661	2020 552 96618	1nF 10% 50V 0402
2662	4822 124 80061	1000µF 20% 25V
2663	4822 121 51319	1µF 10% 63V
2664	4822 124 40255	100µF 20% 63V
2665	4822 126 13881	470pF 5% 50V
2666	2020 552 96793	4.7nF 10% 50V 0402
2670	2238 586 59812	100nF 20% 50V 0603
2671	2238 586 59812	100nF 20% 50V 0603
2672	2222 580 15649	100nF 10% 50V 0805
2673	2020 558 90621	10nF 630V
2674	2020 558 90621	10nF 630V
2675	2020 558 90621	10nF 630V
2676	2020 558 90621	10nF 630V
2677	2020 552 96623	2.2nF 10% 50V 0402
2690	2020 552 96618	1nF 10% 50V 0402

–WW–

3001	4822 051 30471	47Ω 5% 0.062W
3002	4822 051 30471	47Ω 5% 0.062W
3003	4822 117 11297	100kΩ 5% 0.1W
3004	3198 031 01530	15kΩ 5% 0.01W 0402
3005	3198 031 02730	27kΩ 5% 0402
3006	4822 117 13606	10kΩ 5% 0.01W 0402
3007	3198 031 04720	4.7kΩ 5% 0402
3008	4822 051 30102	1kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	3198 031 01530	15kΩ 5% 0.01W 0402
3011	4822 051 30561	560Ω 5% 0.062W
3012	3198 031 04720	4.7kΩ 5% 0402
3013	4822 117 13606	10kΩ 5% 0.01W 0402
3014	4822 050 23309	33Ω 1% 0,6W
3015	4822 050 21009	10Ω 1% 0.6W
3016	4822 051 10102	1kΩ 2% 0.25W
3017	4822 050 23309	33Ω 1% 0,6W
3018	4822 050 21009	10Ω 1% 0.6W
3019	4822 051 10102	1kΩ 2% 0.25W
3020	3198 031 05630	56kΩ 5% 0402
3021	4822 053 11688	6.8Ω 5% 2W
3022	4822 051 30681	680Ω 5% 0.062W
3023	3198 031 04730	47Ω 5% 0402
3024	4822 117 12306	150kΩ 1% 0.1W
3025	2322 706 71802	1.8kΩ 5% 0402
3026	4822 051 20684	680kΩ 5% 0.1W
3027	3198 031 04730	47Ω 5% 0402
3028	2322 704 67502	7.5kΩ 1% 0.5W
3029	4822 051 30123	12kΩ 5% 0.1W
3030	3198 031 01830	18kΩ 5% 0.01W 0402
3031	2322 706 71003	10kΩ 5% 0402
3032	2322 706 71003	10kΩ 5% 0402
3033	2322 705 70184	180Ω 5% 0402
3034	4822 117 13596	220Ω 5% 0.01W 0402
3035	4822 051 20684	680kΩ 5% 0.1W
3036	2122 612 00068	NTC 1Ω 20% 6W
3037	4822 117 13606	10kΩ 5% 0.01W 0402
3038	4822 117 11297	100kΩ 5% 0.1W
3039	4822 051 30105	1MΩ 5% 0.062W
3040	4822 117 10837	100kΩ 1% 0.1W
3041	4822 117 13603	33kΩ 5% 0402
3042	4822 051 30471	47Ω 5% 0.062W
3043	3198 031 04720	4.7kΩ 5% 0402
3044	4822 051 30102	1kΩ 5% 0.062W
3045	4822 051 30102	1kΩ 5% 0.062W
3046	4822 053 20565	5.6MΩ 5% 0.25W
3047	3198 031 01540	150kΩ 5% 0402
3048	3198 031 04720	4.7kΩ 5% 0402
3049	3198 031 01230	12kΩ 5% 0402
3050	4822 052 10398	3.9Ω 5% 0,33W
3051	4822 051 20822	8.2kΩ 5% 0.1W
3052	4822 117 12306	150kΩ 1% 0.1W
3053	2322 662 93131	PTC 10Ω
3054	4822 117 13543	470Ω 5% 0402
3055	4822 117 10833	10kΩ 1% 0.1W
3056	4822 051 30331	330Ω 5% 0.062W
3057	4822 051 30101	100Ω 5% 0.062W
3058	4822 051 20105	1MΩ 5% 0.1W
3059	3198 031 05630	56kΩ 5% 0402
3060	4822 050 22204	220kΩ 1% 0.6W
3061	3198 031 01830	18kΩ 5% 0.01W 0402
3062	4822 117 13548	1kΩ 5% 0402
3063	4822 117 13548	1kΩ 5% 0402
3064	4822 117 13606	10kΩ 5% 0.01W 0402
3065	4822 117 13548	1kΩ 5% 0402
3066	4822 117 13606	10kΩ 5% 0.01W 0402
3067	3198 031 01530	15kΩ 5% 0.01W 0402
3068	4822 117 13606	10kΩ 5% 0.01W 0402
3069	4822 051 30471	47Ω 5% 0.062W
3070	4822 051 30103	10kΩ 5% 0.062W
3071	3198 031 04730	47Ω 5% 0402
3072	3198 012 14720	4.7kΩ +100%/-0% 1W
3073	3198 031 01050	1MΩ 5% 0402
3074	3198 031 01530	15kΩ 5% 0.01W 0402
3075	4822 051 20105	1MΩ 5% 0.1W
3076	4822 117 11297	100kΩ 5% 0.1W
3077	4822 051 20105	1MΩ 5% 0.1W
3078	4822 117 11297	100kΩ 5% 0.1W
3079	4822 051 30681	680Ω 5% 0.062W
3080	4822 051 30681	680Ω 5% 0.062W
3081	3198 031 01520	1.2kΩ 5% 0.01W 0402
3082	3198 031 01520	1.2kΩ 5% 0.01W 0402
3083	2312 915 11002	1kΩ 1% 0.5W
3084	4822 117 13606	10kΩ 5% 0.01W 0402
3085	3198 031 04730	47Ω 5% 0402
3086	3198 031 04730	47Ω 5% 0402
3087	3198 031 04730	47Ω 5% 0402
3088	3198 031 04730	47Ω 5% 0402
3089	4822 117 13606	10kΩ 5% 0.01W 0402
3090	4822 117 13545	100Ω 1% 0402
3091	4822 051 30102	1kΩ 5% 0.062W
3092	4822 051 10102	1kΩ 2% 0.25W
3093	4822 117 13548	1kΩ 5% 0402
3094	4822 051 10102	1kΩ 2% 0.25W
3095	4822 117 13543	470Ω 5% 0402
3096	3198 031 05620	5.6kΩ 5% 0.01W 0402
3097	3198 031 08210	820Ω 5% 0.5W
3098	4822 117 13548	1kΩ 5% 0402
3100	2322 706 71002	1kΩ 1% 0402
3101	2322 706 71002	1kΩ 1% 0402
3102	2322 706 71002	1kΩ 1% 0402
3103	2322 706 71002	1kΩ 1% 0402
3104	2322 706 71002	1kΩ 1% 0402
3106	4822 117 12955	2.7kΩ 1% 0.1W 0805
3107	4822 117 12955	2.7kΩ 1% 0.1W 0805
3108	4822 117 12955	2.7kΩ 1% 0.1W 0805
3109	4822 117 12955	2.7kΩ 1% 0.1W 0805
3110	4822 117 13548	1kΩ 5% 0402
3112	4822 051 30102	1kΩ 5% 0.062W
3113	3198 031 04740	470kΩ 5% 0402
3114	2322 705 70564	560kΩ 5% 0402
3115	3198 031 02240	220kΩ 5% 0.1W 0402
3116	4822 117 13548	1kΩ 5% 0402
3117	4822 117 13606	10kΩ 5% 0.01W 0402
3118	2122 118 06084	0.051Ω 5% 1W 2512
3120	3198 021 31820	1.8kΩ 5% 0.062W 0603
3121	3198 031 04730	47Ω 5% 0402
3122	2322 734 67503	75kΩ 1% 0.062W 0805
3123	4822 117 10965	18kΩ 1% 0.1W
3124	2322 704 67502	7.5kΩ 1% 0.5W
3125	2322 704 67502	7.5kΩ 1% 0.5W
3126	2322 706 72202	2.2kΩ 5% 0402
3128	4822 117 13603	33kΩ 5% 0402
3130	4822 051 30123	12kΩ 5% 0.1W
3131	2322 706 71003	10kΩ 5% 0402
3132	4822 117 13596	220Ω 5% 0.01W 0402
3133	4822 051 30101	100Ω 5% 0.062W
3134	4822 051 30681	680Ω 5% 0.062W
3135	3198 031 04730	47Ω 5% 0402
3136	3198 031 04730	47Ω 5% 0402
3143	4822 053 12472	4.7kΩ 5% 3W
3147	2322 706 71003	10kΩ 5% 0402
3149	4822 052 10478	4.7Ω 5% 0.33W
3150	3198 031 01050	1MΩ 5% 0402
3200	4822 051 20334	330kΩ 5% 0.1W
3202	4822 051 30479	47Ω 5% 0.062W
3203	4822 051 30101	100Ω 5% 0.062W
3204	4822 117 11297	100kΩ 5% 0.1W
3205	3198 031 01540	150kΩ 5% 0402
3206	4822 117 12955	2.7kΩ 1% 0.1W 0805
3207	4822 117 12955	2.7kΩ 1% 0.1W 0805
3208	4822 117 12955	2.7kΩ 1% 0.1W 0805
3209	4822 117 12955	2.7kΩ 1% 0.1W 0805
3210	2322 706 71002	1kΩ 1% 0402
3212	4822 051 30102	1kΩ 5% 0.062W
3213	4822 117 13603	33kΩ 5% 0402
3214	2322 705 70124	120kΩ 5% 0402
3215	2322 705 70274	270kΩ 5% 0402
3216	4822 117 13548	1kΩ 5% 0402
3217	4822 117 13606	10kΩ 5% 0.01W 0402
3218	2122 118 06084	0.051Ω 5% 1W 2512
3219	4822 117 13606	10kΩ 5% 0.01W 0402
3220	4822 050 23309	33Ω 1% 0,6W
3224	2322 706 71203	12kΩ 5% 0402
3225	2322 706 71003	10kΩ 5% 0402
3226	4822 117 13606	10kΩ 5% 0.01W 0402
3228	4822 051 30151	150Ω 5% 0.062W
3229	3198 031 05610	560Ω 5% 0.01W 0402
3262	2322 706 71003	10kΩ 5% 0402
3263	2322 706 71003	10kΩ 5% 0402
3264	3198 031 05610	560Ω 5% 0.01W 0402
3265	4822 117 13548	1kΩ 5% 0402
3268	4822 117 13548	1kΩ 5% 0402
3269	3198 031 02720	2.7kΩ 5% 0.01W 0402
3270	4822 050 21501	150Ω 1% 0,6W
3271	4822 050 21501	150Ω 1% 0,6W
3292	4822 051 30561	560Ω 5% 0.062W
3300	2322 706 72204	220kΩ 5% 0402
3301	2322 706 72204	220kΩ 5% 0402
3304	4822 051 30102	1kΩ 5% 0.062W
3306	2322 706 71003	10kΩ 5% 0402
3307	5322 117 13028	12kΩ 1% 0.063W 0603
3308	4822 051 30102	1kΩ 5% 0.062W
3311	4822 117 13579	220kΩ 1% 0.1W 0805
3312	4822 051 30102	1kΩ 5% 0.062W
3313	2322 704 67502	7.5kΩ 1% 0.5W
3317	2322 704 67502	7.5kΩ 1% 0.5W
3318	4822 117 13606	10kΩ 5% 0.01W 0402
3319	4822 117 13606	10kΩ 5% 0.01W 0402
3320	2322 706 71003	10kΩ 5% 0402
3321	4822 051 30102	1kΩ 5% 0.062W
3322	2322 706 73902	3.9kΩ 1% 0402
3323	2322 706 71003	10kΩ 5% 0402
3324	4822 051 30102	1kΩ 5% 0.062W
3325	4822 051 30471	47Ω 5% 0.062W
3326	3198 031 04720	4.7kΩ 5% 0402
3327	4822 117 13606	10kΩ 5% 0.01W 0402
3328	4822 051 30103	10kΩ 5% 0.062W
3329	4822 117 13606	10kΩ 5% 0.01W 0402
3330	3198 031 04740	470kΩ 5% 0402
3332	2322 706 76803	68kΩ 5% 0402
3333	4822 051 30102	1kΩ 5% 0.062W
3334	2322 706 71003	10kΩ 5% 0402
3335	2322 706 71503	15kΩ 5% 1W 0402
3340	4822 051 30102	1kΩ 5% 0.062W
3341	4822 117 13606	10kΩ 5% 0.01W 0402
3342	4822 051 30103	10kΩ 5% 0.062W
3343	4822 051 30102	1kΩ 5% 0.062W
3344	4822 051 30102	1kΩ 5% 0.062W
3345	4822 117 13548	1kΩ 5% 0402
3346	4822 117 13548	1kΩ 5% 0402
3347	4822 051 30331	330Ω 5% 0.062W
3348	4822 051 30331	330Ω 5% 0.062W
3349	4822 051 30102	1kΩ 5% 0.062W
3350	4822 051 30472	4.7Ω 5% 0.062W
3351	4822 051 30103	10kΩ 5% 0.062W
3352	4822 051 30103	10kΩ 5% 0.062W
3353	4822 117 13606	10kΩ 5% 0.01W 0402
3354	3198 031 04720	4.7kΩ 5% 0402
3356	3198 031 05610	560Ω 5% 0.01W 0402
3358	4822 051 30222	2.2kΩ 5% 0.062W
3359	3198 031 05620	5.6kΩ 5% 0.01W 0402
3360	3198 031 01220	1.2kΩ 5% 0.01W 0402
3361	3198 031 04720	4.7kΩ 5% 0402
3362	3198 031 02720	2.7kΩ 5% 0.01W 0402
3363	4822 051 30102	1kΩ 5% 0.062W
3364	4822 051 30272	2.7kΩ 5% 0.062W
3366	4822 117 13606	10kΩ 5% 0.01W 0402
3367	4822 051 30103	10kΩ 5% 0.062W
3369	3198 031 04720	4.7kΩ 5% 0402
3370	2322 675 20907	PTC 470Ω 50% 25V 0805
3373	3198 031 04720	4.7kΩ 5% 0402
3374	3198 031 04730	47Ω 5% 0402
3376	3198 031 04730	47Ω 5% 0402
3377	3198 031 04720	4.7kΩ 5% 0402

3378	4822 117 13606	10kΩ 5% 0.01W 0402
3380	3198 031 04730	47Ω 5% 0402
3381	3198 031 04730	47Ω 5% 0402
3383	4822 117 13606	10kΩ 5% 0.01W 0402
3384	4822 117 13606	10kΩ 5% 0.01W 0402
3386	4822 051 30101	100Ω 5% 0.062W
3388	4822 051 30102	1kΩ 5% 0.062W
3389	4822 051 30102	1kΩ 5% 0.062W
3390	4822 117 13548	1kΩ 5% 0402
3391	4822 117 13606	10kΩ 5% 0.01W 0402
3392	3198 031 04730	47Ω 5% 0402
3393	3198 031 04730	47Ω 5% 0402
3394	3198 031 04730	47Ω 5% 0402
3395	3198 031 01540	150kΩ 5% 0402
3397	3198 031 04730	47Ω 5% 0402
3398	3198 031 04730	47Ω 5% 0402
3399	3198 031 05620	5.6kΩ 5% 0.01W 0402
3400	2122 550 00158	VDR 1mA 612V
3401	4822 117 10118	1MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3450	2322 662 93131	PTC 10Ω
3451	2322 662 93131	PTC 10Ω
3452	2122 612 00068	NTC 1Ω 20% 6W
3460	4822 117 13602	2.2kΩ 5% 0.01W 0402
3461	4822 117 13606	10kΩ 5% 0.01W 0402
3463	4822 117 13606	10kΩ 5% 0.01W 0402
3465	4822 117 13606	10kΩ 5% 0.01W 0402
3467	4822 117 13606	10kΩ 5% 0.01W 0402
3469	3198 031 04720	4.7kΩ 5% 0402
3470	4822 117 13606	10kΩ 5% 0.01W 0402
3471	4822 117 13548	1kΩ 5% 0402
3472	4822 117 13548	1kΩ 5% 0402
3501	4822 051 30102	1kΩ 5% 0.062W
3502	4822 051 30471	47Ω 5% 0.062W
3503	2322 706 74702	4.7kΩ 5% 0402
3504	2322 706 73303	33kΩ 5% 0402
3505	2322 706 74702	4.7kΩ 5% 0402
3506	2322 662 93131	PTC 10Ω
3507	4822 051 20684	680kΩ 5% 0.1W
3508	4822 053 11688	6.8Ω 5% 2W
3509	2312 915 11209	12Ω 1% 0.5W
3603	4822 051 20474	470kΩ 5% 0.1W
3604	4822 051 20474	470kΩ 5% 0.1W
3605	4822 051 20474	470kΩ 5% 0.1W
3606	4822 051 30101	100Ω 5% 0.062W
3607	4822 117 12891	220kΩ 1%
3608	2312 915 11209	12Ω 1% 0.5W
3609	4822 051 20474	470kΩ 5% 0.1W
3610	4822 050 23308	3.3Ω 1% 0.6W
3611	4822 050 21003	10kΩ 1% 0.6W
3613	4822 117 13606	10kΩ 5% 0.01W 0402
3614	2322 194 95001	0.27Ω 5% 2W
3615	2322 194 95001	0.27Ω 5% 2W
3616	3198 031 01230	12kΩ 5% 0402
3617	3198 031 04730	47Ω 5% 0402
3618	4822 117 13603	33kΩ 5% 0402
3619	3198 031 03320	3.3kΩ 5% 0402
3620	2322 194 95001	0.27Ω 5% 2W
3621	4822 050 22208	2.2Ω 1% 0,6W
3622	4822 050 22208	2.2Ω 1% 0,6W
3623	4822 117 13548	1kΩ 5% 0402
3639	4822 051 10102	1kΩ 2% 0.25W
3640	4822 051 30331	330Ω 5% 0.062W
3641	4822 051 20471	470Ω 5% 0.1W
3642	4822 117 11503	220Ω 1% 0.1W
3643	4822 117 11503	220Ω 1% 0.1W
3651	4822 117 13601	22kΩ 5% 0402
3652	3198 031 01050	1MΩ 5% 0402
3654	4822 117 13606	10kΩ 5% 0.01W 0402
3655	4822 117 13548	1kΩ 5% 0402
3656	3198 031 01820	1.8kΩ 5% 0.01W 0402
3659	4822 117 11503	220Ω 1% 0.1W
3660	4822 117 11504	270Ω 1% 0.1W
3661	4822 117 11504	270Ω 1% 0.1W
3663	4822 052 10108	1Ω 5% 0.33W
3664	2322 706 71204	120kΩ 5% 0402
3665	2322 705 70274	270kΩ 5% 0402
3666	4822 051 30101	100Ω 5% 0.062W
3668	4822 052 11102	1kΩ 5% 0.5W
3669	2322 706 71204	120kΩ 5% 0402
3671	2322 706 71003	10kΩ 5% 0402
3673	4822 052 11102	1kΩ 5% 0.5W
3675	2322 702 60158	1.5Ω
3676	2322 706 74702	4.7kΩ 5% 0402
3677	2322 706 74703	47kΩ 1% 0402
3678	3198 031 04730	47Ω 5% 0402
3679	4822 117 12306	150kΩ 1% 0.1W
3680	4822 117 13579	220kΩ 1% 0.1W 0805
3681	4822 117 13579	220kΩ 1% 0.1W 0805
3682	4822 117 13579	220kΩ 1% 0.1W 0805
3683	4822 051 20334	330kΩ 5% 0.1W
3684	4822 051 20334	330kΩ 5% 0.1W
3685	4822 051 20334	330kΩ 5% 0.1W
3686	4822 117 12971	15Ω 5% 0603 0.62W
3690	3198 031 03920	3.9kΩ 5% 0402
3691	3198 031 08220	8.2kΩ 5% 0.5W
3692	4822 117 13606	10kΩ 5% 0.01W 0402
3693	4822 117 13602	2.2kΩ 5% 0.01W 0402
3806	4822 117 13543	470Ω 5% 0402
3807	4822 117 13606	10kΩ 5% 0.01W 0402
3808	4822 117 13606	10kΩ 5% 0.01W 0402
3809	3198 031 02730	27kΩ 5% 0402
3811	4822 117 13545	100Ω 1% 0402
3999	4822 117 13548	1kΩ 5% 0402
9001	4822 051 20008	Jumper 0805
9020	4822 051 20008	Jumper 0805
9028	4822 117 13605	Jumper 0402

5001	2422 531 02444	S13932-04Y
5002	3104 308 21022	BS42315-02
5004	3104 308 21022	BS42315-02
5005	3122 138 38901	Mains filter CU28D3
5121	3104 308 20771	Bridge coil BD21232-00
5220	3104 308 20911	BS29238-00
5225	2422 536 00672	4.7µH 20%
5229	2422 536 00826	220µH 10%
5260	3198 018 71010	100µF 10%
5268	2422 536 00288	100µH 10%
5290	3104 308 21171	BD15403-00
5291	4822 157 11737	22µH 10%
5292	4822 157 11737	22µH 10%
5293	4822 157 11737	22µH 10%
5401	3122 138 38901	Mains filter CU28D3
5402	3122 138 38901	Mains filter CU28D3
5500▲	2422 531 00102	BS16510-01
5503	2422 535 94639	10µH 20%
5600	3104 308 20821	Coil BS42228-00 B
5601	4822 157 11411	Bead 80Ω at 100MHz
5612	4822 157 11411	Bead 80Ω at 100MHz
5660	4822 157 51192	220µH 10%

6002	4822 130 11397	BAS316
6003	9340 548 71115	PDZ33B
6004	4822 130 11397	BAS316
6005	4822 130 11397	BAS316
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11397	BAS316
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	3198 020 55680	BZX384-C5V6
6018	4822 130 11397	BAS316
6019	4822 130 11397	BAS316
6021	3198 010 10740	BYV28-200
6021	4822 130 32961	BYV28-200
6023	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6029	4822 130 11416	PDZ6.8B
6031	3198 020 55680	BZX384-C5V6
6032	3198 020 55680	BZX384-C5V6
6033	9322 150 18685	BZX384-C47
6034	4822 130 11397	BAS316
6035	4822 130 11397	BAS316
6042	9322 150 18685	BZX384-C47
6044	9322 202 88687	STTH2003CFP
6045	3198 010 10740	BYV28-200
6045	4822 130 32961	BYV28-200
6050	4822 130 11152	UDZ18B
6054	9340 553 52115	BAS321
6055	9340 553 52115	BAS321
6061	4822 130 11152	UDZ18B
6062	4822 130 11152	UDZ18B
6075	9340 292 80135	BZG03-C270
6077	9340 292 80135	BZG03-C270
6086	4822 130 11397	BAS316
6111	9340 553 52115	BAS321
6112	9340 553 52115	BAS321
6113	4822 130 11397	BAS316
6114	4822 130 11416	PDZ6.8B
6117	4822 130 11152	UDZ18B
6120	9322 202 75687	BYW29FP-200
6123	4822 130 11397	BAS316
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6142	9322 192 15668	SM S3J
6201	3198 020 55680	BZX384-C5V6
6202	4822 130 11397	BAS316
6204	3198 020 55680	BZX384-C5V6
6205	4822 130 11152	UDZ18B
6206	4822 130 11397	BAS316
6211	9322 202 55685	BYG22D
6213	4822 130 11397	BAS316
6216	4822 130 11152	UDZ18B
6225	9322 173 47687	STPS20L40CFP
6230	9322 155 79685	EC31QS04
6267	4822 130 82627	SB540
6269	9322 099 61685	BYG10J
6270	9322 099 61685	BYG10J
6291	4822 130 11572	STPS8H100F
6292	4822 130 11572	STPS8H100F
6312	4822 130 80622	BAT54
6313	4822 130 80622	BAT54
6321	4822 130 80622	BAT54
6322	4822 130 80622	BAT54
6325	4822 130 11416	PDZ6.8B
6333	4822 130 80622	BAT54
6334	4822 130 80622	BAT54
6335	4822 130 11397	BAS316
6340	4822 130 80622	BAT54
6341	4822 130 80622	BAT54
6344	4822 130 10838	UDZ3.3B
6347	4822 130 80622	BAT54
6362	4822 130 11397	BAS316
6364	4822 130 11397	BAS316
6365	4822 130 11397	BAS316
6366	4822 130 11397	BAS316
6367	4822 130 11397	BAS316
6375	4822 130 11397	BAS316
6376	4822 130 11397	BAS316
6378	4822 130 80622	BAT54
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6470	4822 130 11397	BAS316
6471	4822 130 11397	BAS316
6501	9322 218 64673	BZT03C200
6502	9322 218 64673	BZT03C200
6503	9322 176 76668	RS1J
6504	9322 176 76668	RS1J
6505	9322 155 79685	EC31QS04
6506	9322 218 64673	BZT03C200
6507	9322 155 79685	EC31QS04
6508	9322 128 69685	S1D
6510	9322 099 61685	BYG10J
6511	9322 099 61685	BYG10J
6512	9322 099 61685	BYG10J
6513	9322 099 61685	BYG10J
6600	9322 177 84667	GBU8JL-7014
6601	9322 150 17685	BZX384-C39
6602	4822 130 11522	UDZ15B
6605	9322 192 15668	SM S3J
6606	9322 192 15668	SM S3J
6608	9322 128 70685	SMSS14
6609	9322 208 81685	BZG05C18
6611	3139 120 52021	BYV29X-500
6640	9322 128 70685	SMSS14
6641	4822 130 11397	BAS316
6642	9322 128 70685	SMSS14
6643	4822 130 11152	UDZ18B
6651	4822 130 80622	BAT54
6652	9322 128 70685	SMSS14
6653	4822 130 10837	UDZS8.2B
6654	4822 130 11397	BAS316
6660	9322 202 55685	BYG22D
6661	9322 202 55685	BYG22D
6663	9322 198 81685	SL04
6665	9322 198 81685	SL04
6666	4822 130 10837	UDZS8.2B



7001	9322 108 21682	MC34067P
7002	9322 149 04682	TCET1102
7003	9322 149 04682	TCET1102
7004	9322 192 17685	P0102BL
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	4822 130 41246	BC327-25
7008	4822 130 41246	BC327-25
7009	3198 010 42310	BC847BW
7010	9322 192 16685	TS2431AI
7011	9322 192 16685	TS2431AI
7012	3198 010 42310	BC847BW
7013	5322 130 63033	BCP56
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7020	9335 671 30126	BC517
7021	9335 671 30126	BC517
7042	9340 308 50135	PMST5401
7050	9340 557 16127	PSMN035-150P
7052	9340 557 58118	PSMN063-150D
7058	3198 010 42310	BC847BW
7059	9340 308 60135	PMST5550
7090	3198 010 42320	BC857BW

7091	3198 010 42320	BC857BW
7092	3198 010 44350	BC807-25W
7093	4822 209 80591	LM317T
7110	9340 308 50135	PMST5401
7112	9352 673 56112	TEA1507p/N1
7117	9340 557 17118	PSMN035-150B
7120	9322 149 04682	TCET1102
7121	9322 192 16685	TS2431AI
7130	9322 192 16685	TS2431AI
7134	3198 010 42310	BC847BW
7200	9340 565 06215	BSH114
7202	9965 000 04199	BSN20
7212	9352 673 56112	TEA1507p/N1
7217	9340 557 18127	PSMN070-200P
7220	9322 149 04682	TCET1102
7227	9322 192 16685	TS2431AI
7230	9322 205 64687	L4940P85
7260	9322 166 31682	L4973V3.3
7304	9322 192 16685	TS2431AI
7308	9322 213 35668	LM339P
7326	3198 010 42310	BC847BW
7327	3198 010 42310	BC847BW
7330	9322 213 35668	LM339P
7341	3198 010 42320	BC857BW
7348	3198 010 42310	BC847BW
7351	3198 010 42310	BC847BW
7352	3198 010 42310	BC847BW
7362	3198 010 42310	BC847BW
7363	3198 010 42310	BC847BW
7364	3198 010 42310	BC847BW
7365	3198 010 42310	BC847BW
7366	9322 213 19668	LM324APW
7375	3198 010 42310	BC847BW
7376	3198 010 42310	BC847BW
7391	3198 010 42320	BC857BW
7460	9340 219 30115	BC817-25W
7461	4822 130 60142	BC869
7465	3198 010 42320	BC857BW
7470	9340 219 30115	BC817-25W
7500	9322 037 99682	TNY256P
7501	9322 149 04682	TCET1102
7502	9322 192 16685	TS2431AI
7540	4822 209 17398	LD1117DT33
7601	3198 010 42310	BC847BW
7602	3198 010 42320	BC857BW
7608	5322 130 44593	BC369
7610	9322 223 21687	STW29NK50Z
7640	9965 000 04199	BSN20
7641	9340 219 30115	BC817-25W
7650	9322 130 69682	MC33368P
7654	3198 010 42320	BC857BW
7655	3198 010 42310	BC847BW
7656	3198 010 42310	BC847BW
7661	5322 209 90529	MC34063AD

PDP FHP Supply Panel (.2) [A]

Various

0308	2422 025 16269	Connector 2p m
0309	2422 015 18552	Connector 1P m
0311	2422 025 10769	Connector 9p m
0323	2422 025 15085	Connector 10p m
1002	2422 025 09407	Connector 7p m
1004	2422 086 00676	Fuse 2A T 250V
1082	2422 086 00677	Fuse 2.5A T 250V
1083	2422 086 00677	Fuse 2.5A T 250V
1084	2422 086 10849	Fuse 1A F 250V
1110	2422 086 00678	Fuse 5A T 250V
1200	2422 086 00676	Fuse 2A T 250V
1260	2422 086 10588	Fuse 2A T 65V
1400	2422 086 00806	Fuse 6.3A HT 250V
1402	2422 549 42349	Surge Prot. DSP501N
1450	2422 132 07357	Relay 1p 9V 10/80A
1460	2422 132 07357	Relay 1p 9V 10/80A
1M03	2422 025 10771	Connector 10p m
1M05	2422 025 16374	Connector 2p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m

⊣⊢

2000	2022 554 04155	470pF 20% 250V
2001	2222 338 22474	470nF 20% 275V
2005	2238 867 18101	100pF 1% 50V 0603
2006	3198 035 01020	1nF X7R 50V 0402
2007	3198 017 31040	100nF 20% 50V 0603
2008	3198 017 31030	10nF 20% 50V 0603
2009	3198 030 82280	2.2µF 20% 50V
2010	3198 017 31030	10nF 20% 50V 0603
2011	2222 375 90158	15nF 5% 1.6kV
2012	3198 019 73310	330pF 10% 2.5kV
2013	3198 019 73310	330pF 10% 2.5kV
2014	3198 019 71520	1.5nF 2kV
2015	3198 017 31030	10nF 20% 50V 0603
2016	3198 030 82280	2.2µF 20% 50V
2017	2222 375 90158	15nF 5% 1.6kV
2018	2238 867 18101	100pF 1% 50V 0603
2019	2022 554 04155	470pF 20% 250V
2020	2020 024 90737	3300µF 20% 100V
2021	2020 024 90737	3300µF 20% 100V
2022	3198 038 51020	1000µF 20% 50V
2023	2222 580 15649	100nF 10% 50V 0805
2024	3198 035 03320	3.3nF 5% 50V 0402
2025	3198 030 81080	1µF 20% 50V
2026	3198 035 02220	2.2nF 50V 0402
2027	2020 552 96631	15nF 10% 16V 0402
2028	2238 930 11541	220pF 5% 200V
2029	2238 930 11541	220pF 5% 200V
2030	3198 017 31040	100nF 20% 50V 0603
2031	3198 035 21030	10nF 16V 0402
2032	2238 586 15641	22nF 10% 50V 0603
2033	3198 017 31040	100nF 20% 50V 0603
2034	2020 558 90511	47pF 5% 1kV
2035	3198 035 01020	1nF X7R 50V 0402
2036	2238 586 15641	22nF 10% 50V 0603
2037	2020 558 90511	47pF 5% 1kV
2038	3198 035 01020	1nF X7R 50V 0402
2039	3198 035 02220	2.2nF 50V 0402
2040	3198 034 02790	47pF 1% 50V 0402
2041	3198 034 01010	100pF 50V 0402
2042	3198 035 03310	330pF 5% 50V 0402
2043	3198 030 81080	1µF 20% 50V
2044	2238 930 11541	220pF 5% 200V
2045	2238 930 11541	220pF 5% 200V
2046	2252 568 08305	33pF 5% 500V
2047	3198 017 31040	100nF 20% 50V 0603
2048	2020 552 96683	220nF 10% 50V
2049	2238 867 18101	100pF 1% 50V 0603
2050	2238 586 15641	22nF 10% 50V 0603
2051	3198 017 01030	10nF 50V X7R 0805
2052	3198 026 41020	1000µF 20% 35V
2053	3198 030 72290	22µF 20% 35V
2054	2020 552 00216	220pF 5% 50V 0402
2054	2020 552 00234	220pF 5% 50V
2055	3198 035 01520	1.5nF 50V 0402
2056	2020 552 00216	220pF 5% 50V 0402
2056	2020 552 00234	220pF 5% 50V
2057	3198 035 01520	1.5nF 50V 0402
2058	2020 012 93279	1µF 20% 250V
2059	3198 017 31040	100nF 20% 50V 0603
2060	2020 552 96683	220nF 10% 50V
2061	3198 017 31040	100nF 20% 50V 0603
2062	3198 030 82280	2.2µF 20% 50V
2070	3198 035 01020	1nF X7R 50V 0402
2071	3198 035 01020	1nF X7R 50V 0402
2090	3198 030 74780	4u7 20% 35V
2112	3198 035 01020	1nF X7R 50V 0402
2113	3198 025 32210	220µF 20% 25V
2114	2020 552 96683	220nF 10% 50V
2117	2222 780 15656	330nF 10% 16V
2118	3198 019 61020	1nF 10% 1kV
2121	2020 024 90736	2200µF 20% 100V
2122	2222 365 75105	1µF 10% 63V
2123	3198 035 03320	3.3nF 5% 50V 0402
2126	3198 017 31040	100nF 20% 50V 0603
2133	3198 025 52290	22µF 20% 50V
2203	3198 017 31040	100nF 20% 50V 0603
2205	3198 030 74780	4u7 20% 35V
2210	3198 030 44790	47µF 20% 16V SMD
2211	3198 035 04710	470pF 50V 0402
2212	2020 552 95419	220nF 10% 16V
2212	2020 552 96326	220nF 10% 16V
2212	2238 780 15654	220nF 10% 16V 0805
2213	3198 035 03320	3.3nF 5% 50V 0402
2214	3198 035 03320	3.3nF 5% 50V 0402
2215	3198 035 04710	470pF 50V 0402
2217	2222 780 15656	330nF 10% 16V
2218	2222 375 90141	3.3nF 1.6kV 5%
2222	3198 034 01010	100pF 50V 0402
2223	3198 034 01010	100pF 50V 0402
2225	2020 021 91551	2200µF 20% 25V
2226	3198 017 31040	100nF 20% 50V 0603
2227	3198 034 01010	100pF 50V 0402
2229	2020 021 00036	470µF 20% 16V
2230	2020 021 00036	470µF 20% 16V
2231	3198 030 44790	47µF 20% 16V SMD
2232	3198 034 01010	100pF 50V 0402
2234	2020 552 96448	1µF 10% 16V 0805
2234	2222 780 15663	1µF 10% 0805
2236	3198 030 41090	10µF 20% 16V
2237	3198 030 41090	10µF 20% 16V
2261	3198 026 51020	1000µF 50V
2263	2222 861 15272	2.7nF 5% 50V 0805
2264	2222 780 15658	470nF 10% 16V
2265	3198 035 03310	330pF 5% 50V 0402
2266	3198 030 74780	4u7 20% 35V
2267	3198 016 01010	100pF 10% 50V 0805
2268	2020 552 96683	220nF 10% 50V
2269	3198 026 22220	2200µF 20% 16V
2270	3198 025 34790	47µF 20% 25V
2273	3198 017 31040	100nF 20% 50V 0603
2274	3198 035 21030	10nF 16V 0402
2290	3198 017 31030	10nF 20% 50V 0603
2291	3198 035 04710	470pF 50V 0402
2292	3198 026 51020	1000µF 50V
2293	3198 035 04710	470pF 50V 0402
2294	3198 026 51020	1000µF 50V
2295	3198 035 04710	470pF 50V 0402
2296	3198 035 04710	470pF 50V 0402
2304	3198 035 01020	1nF X7R 50V 0402
2305	3198 017 31040	100nF 20% 50V 0603
2306	3198 017 31040	100nF 20% 50V 0603
2322	3198 017 31040	100nF 20% 50V 0603
2324	3198 017 31040	100nF 20% 50V 0603
2343	3198 030 82280	2.2µF 20% 50V
2350	3198 030 41010	100µF 20% 16V
2352	3198 017 31040	100nF 20% 50V 0603
2364	3198 017 31040	100nF 20% 50V 0603
2376	3198 017 31040	100nF 20% 50V 0603
2377	3198 017 31040	100nF 20% 50V 0603
2381	3198 017 31040	100nF 20% 50V 0603
2385	3198 035 21030	10nF 16V 0402
2386	3198 035 21030	10nF 16V 0402
2387	3198 030 41010	100µF 20% 16V
2388	3198 035 21030	10nF 16V 0402
2389	3198 035 01020	1nF X7R 50V 0402
2390	3198 035 01020	1nF X7R 50V 0402
2397	3198 030 41010	100µF 20% 16V
2398	3198 030 41090	10µF 20% 16V
2400	2222 338 22474	470nF 20% 275V
2401	2222 338 22474	470nF 20% 275V
2404	2020 558 90511	47pF 5% 1kV
2405	2022 554 04155	470pF 20% 250V
2406	2020 558 90511	47pF 5% 1kV
2407	2022 554 04155	470pF 20% 250V
2465	3198 030 41010	100µF 20% 16V
2502	3198 034 01010	100pF 50V 0402
2503	2020 024 90708	47µF 400V 20%
2504	3198 035 01020	1nF X7R 50V 0402
2505	3198 026 51020	1000µF 50V
2507	3198 034 01010	100pF 50V 0402
2508	3198 030 41010	100µF 20% 16V
2509	3198 034 01010	100pF 50V 0402
2510	2020 021 91506	1000µF 20% 16V
2511	3198 017 31040	100nF 20% 50V 0603
2512	3198 017 31040	100nF 20% 50V 0603
2513	2222 580 15649	100nF 10% 50V 0805
2532	3198 030 41010	100µF 20% 16V
2533	3198 030 41010	100µF 20% 16V
2534	2020 552 96448	1µF 10% 16V 0805
2534	2222 780 15663	1µF 10% 0805
2540	3198 030 41010	100µF 20% 16V
2541	3198 030 41010	100µF 20% 16V
2542	3198 017 31040	100nF 20% 50V 0603
2600	3198 019 51020	1nF 1.5kV
2601	3198 019 51020	1nF 1.5kV
2602	3198 035 02220	2.2nF 50V 0402
2603	2222 383 90136	1µF 5% 400V
2605	2222 383 90136	1µF 5% 400V
2608	3198 035 01020	1nF X7R 50V 0402
2610	2222 375 90237	1.8nF 5% 2kV
2611	3198 019 72210	220pF 10% 2kV
2612	3198 035 01020	1nF X7R 50V 0402
2614	3198 035 02220	2.2nF 50V 0402
2616	2020 024 90706	220µF 20% 400V
2617	2020 024 90706	220µF 20% 400V
2640	3198 035 04710	470pF 50V 0402
2642	3198 035 01020	1nF X7R 50V 0402
2651	3198 035 21030	10nF 16V 0402
2653	3198 035 06810	680pF 5% 50V 0402
2654	3198 030 44790	47µF 20% 16V SMD
2655	2020 552 96448	1µF 10% 16V 0805
2655	2222 780 15663	1µF 10% 0805
2656	2222 580 15649	100nF 10% 50V 0805
2660	3198 016 34710	470pF 10% 50V 0603
2661	3198 035 01020	1nF X7R 50V 0402
2662	3198 026 31020	1000µF 20% 25V
2663	3198 014 01050	1µF 10% 50V
2664	3198 025 51010	100µF 20% 50V
2665	3198 016 34710	470pF 10% 50V 0603
2666	2020 552 96793	4.7nF 10% 50V 0402
2670	3198 017 31040	100nF 20% 50V 0603
2671	3198 017 31040	100nF 20% 50V 0603
2672	2222 580 15649	100nF 10% 50V 0805
2673	2020 558 00005	10nF 10% 630V 1206
2673	2020 558 90621	10nF 630V
2674	2020 558 00005	10nF 10% 630V 1206
2674	2020 558 90621	10nF 630V

2675	2020 558 00005	10nF 10% 630V 1206
2675	2020 558 90621	10nF 630V
2676	2020 558 00005	10nF 10% 630V 1206
2676	2020 558 90621	10nF 630V
2677	3198 035 02220	2.2nF 50V 0402
2690	3198 035 01020	1nF X7R 50V 0402

–WW–

3001	3198 021 34710	470Ω 5% 0603
3002	3198 021 34710	470Ω 5% 0603
3003	3198 031 01040	100kΩ 5% 0402
3004	3198 031 01530	15kΩ 5% 0.01W 0402
3005	3198 031 02730	27kΩ 5% 0402
3006	3198 031 01030	10kΩ 5% 0402
3007	3198 031 04720	4.7kΩ 5% 0402
3008	3198 021 31020	1kΩ 5% 0.062W 0603
3009	3198 021 31020	1kΩ 5% 0.062W 0603
3010	3198 031 01530	15kΩ 5% 0.01W 0402
3011	3198 021 35610	560Ω 5% 0.062W 0603
3012	3198 031 04720	4.7kΩ 5% 0402
3013	3198 031 01030	10kΩ 5% 0402
3014	3198 039 33090	33Ω 1%
3015	3198 039 10090	10Ω 1%
3016	3198 021 51020	1kΩ 5% 0805
3017	3198 039 33090	33Ω 1%
3018	3198 039 10090	10Ω 1%
3019	3198 021 51020	1kΩ 5% 0805
3020	3198 031 05630	56kΩ 5% 0402
3021	3198 012 26880	6Ω8 5% 2W
3022	3198 021 36810	680Ω 5% 0.062W 0603
3023	3198 031 04730	47Ω 5% 0402
3024	2322 734 61504	150kΩ 1% 0805
3025	2322 706 71802	1.8kΩ 5% 0402
3026	3198 021 56840	680kΩ 5% 0805
3027	3198 031 04730	47Ω 5% 0402
3028	2322 704 67502	7.5kΩ 1% 0.5W
3029	3198 021 31230	12kΩ 5% 0.062W 0603
3030	3198 031 01830	18kΩ 5% 0.01W 0402
3031	2322 706 71003	10kΩ 5% 0402
3032	2322 706 71003	10kΩ 5% 0402
3033	2322 705 70184	180Ω 5% 0402
3034	3198 031 02210	220Ω 5% 0402
3035	3198 021 56840	680kΩ 5% 0805
3036	2122 612 00068	NTC 1Ω 20% 6W
3037	3198 031 01030	10kΩ 5% 0402
3038	3198 031 01040	100kΩ 5% 0402
3039	3198 021 31050	1MΩ 5% 0603
3040	3198 021 51040	100kΩ 5% 0805
3041	3198 031 03330	33kΩ 5% 0402
3042	3198 021 34710	470Ω 5% 0603
3043	3198 031 04720	4.7kΩ 5% 0402
3044	3198 021 31020	1kΩ 5% 0.062W 0603
3045	3198 021 31020	1kΩ 5% 0.062W 0603
3046	2322 241 53565	5.6MΩ 5%
3047	3198 031 01540	150kΩ 5% 0402
3048	3198 031 04720	4.7kΩ 5% 0402
3049	3198 031 01230	12kΩ 5% 0402
3050	2306 204 03398	3.9Ω 5%
3051	3198 021 58220	8.2kΩ 5% 0805
3052	2322 734 61504	150kΩ 1% 0805
3053	2322 662 93131	PTC 10Ω
3054	3198 031 04710	470Ω 5% 0402
3055	3198 021 51030	10kΩ 5% 0805
3056	3198 021 33310	330Ω 5% 0.062W 0603
3057	3198 021 31010	100Ω 5% 0.062W 0603
3058	3198 021 51050	1MΩ 5% 0805
3059	3198 031 05630	56kΩ 5% 0402
3060	3198 039 22040	220kΩ 1%
3061	3198 031 01830	18kΩ 5% 0.01W 0402
3062	3198 031 01020	1kΩ 5% 0402
3063	3198 031 01020	1kΩ 5% 0402
3064	3198 031 01030	10kΩ 5% 0402
3065	3198 031 01020	1kΩ 5% 0402
3066	3198 031 01030	10kΩ 5% 0402
3067	3198 031 01530	15kΩ 5% 0.01W 0402
3068	3198 031 01030	10kΩ 5% 0402
3069	3198 021 34710	470Ω 5% 0603
3070	3198 021 31030	10kΩ 5% 0.062W 0603
3071	3198 031 04730	47Ω 5% 0402
3072	3198 012 14720	4.7kΩ +100%/-0% 1W
3073	3198 031 01050	1MΩ 5% 0402
3074	3198 031 01530	15kΩ 5% 0.01W 0402
3075	3198 021 51050	1MΩ 5% 0805
3076	3198 031 01040	100kΩ 5% 0402
3077	3198 021 51050	1MΩ 5% 0805
3078	3198 031 01040	100kΩ 5% 0402
3079	3198 021 36810	680Ω 5% 0.062W 0603
3080	3198 021 36810	680Ω 5% 0.062W 0603
3081	3198 031 01520	1.2kΩ 5% 0.01W 0402
3082	3198 031 01520	1.2kΩ 5% 0.01W 0402
3083	3198 039 10020	1kΩ 1% 0.5W
3084	3198 031 01030	10kΩ 5% 0402
3085	3198 031 04730	47Ω 5% 0402
3086	3198 031 04730	47Ω 5% 0402
3087	3198 031 04730	47Ω 5% 0402
3088	3198 031 04730	47Ω 5% 0402
3089	3198 031 01030	10kΩ 5% 0402
3090	3198 031 01010	1Ω 5% 0402
3091	3198 021 31020	1kΩ 5% 0.062W 0603
3092	3198 021 51020	1kΩ 5% 0805
3093	3198 031 01020	1kΩ 5% 0402
3094	3198 021 51020	1kΩ 5% 0805
3095	3198 031 04710	470Ω 5% 0402
3096	3198 031 05620	5.6kΩ 5% 0.01W 0402
3097	3198 031 08210	820Ω 5% 0.5W
3098	3198 031 01020	1kΩ 5% 0402
3100	2322 706 71002	1kΩ 1% 0402
3101	2322 706 71002	1kΩ 1% 0402
3102	2322 706 71002	1kΩ 1% 0402
3103	2322 706 71002	1kΩ 1% 0402
3104	2322 706 71002	1kΩ 1% 0402
3106	3198 021 52720	2.7kΩ 5% 0805
3107	3198 021 52720	2.7kΩ 5% 0805
3108	3198 021 52720	2.7kΩ 5% 0805
3109	3198 021 52720	2.7kΩ 5% 0805
3110	3198 031 01020	1kΩ 5% 0402
3112	3198 021 31020	1kΩ 5% 0.062W 0603
3113	3198 031 04740	470kΩ 5% 0402
3114	2322 705 70564	560kΩ 5% 0402
3115	3198 031 02240	220kΩ 5% 0.1W 0402
3116	3198 031 01020	1kΩ 5% 0402
3117	3198 031 01030	10kΩ 5% 0402
3118	2122 118 06084	0.051Ω 5% 1W 2512
3120	3198 021 31820	1.8kΩ 5% 0.062W 0603
3121	3198 031 04730	47Ω 5% 0402
3122	2322 734 67503	75kΩ 1% 0.062W 0805
3123	3198 021 51830	18kΩ 5% 0805
3124	2322 704 67502	7.5kΩ 1% 0.5W
3125	2322 704 67502	7.5kΩ 1% 0.5W
3126	2322 706 72202	2.2kΩ 5% 0402
3128	3198 031 03330	33kΩ 5% 0402
3130	3198 021 31230	12kΩ 5% 0.062W 0603
3131	2322 706 71003	10kΩ 5% 0402
3132	3198 031 02210	220Ω 5% 0402
3133	3198 021 31010	100Ω 5% 0.062W 0603
3134	3198 021 36810	680Ω 5% 0.062W 0603
3135	3198 031 04730	47Ω 5% 0402
3136	3198 031 04730	47Ω 5% 0402
3143	3198 012 34720	4.7kΩ 5% 3W
3147	2322 706 71003	10kΩ 5% 0402
3149	2306 204 03478	Fuse 4.7Ω 5% NFR25
3150	3198 031 01050	1MΩ 5% 0402
3200	3198 021 53340	330kΩ 5% 0805
3202	3198 021 34790	47Ω 5% 0603
3203	3198 021 31010	100Ω 5% 0.062W 0603
3204	3198 031 01040	100kΩ 5% 0402
3205	3198 031 01540	150kΩ 5% 0402
3206	3198 021 52720	2.7kΩ 5% 0805
3207	3198 021 52720	2.7kΩ 5% 0805
3208	3198 021 52720	2.7kΩ 5% 0805
3209	3198 021 52720	2.7kΩ 5% 0805
3210	2322 706 71002	1kΩ 1% 0402
3212	3198 021 31020	1kΩ 5% 0.062W 0603
3213	3198 031 03330	33kΩ 5% 0402
3214	2322 705 70124	120kΩ 5% 0402
3215	2322 705 70274	270kΩ 5% 0402
3216	3198 031 01020	1kΩ 5% 0402
3217	3198 031 01030	10kΩ 5% 0402
3218	2122 118 06084	0.051Ω 5% 1W 2512
3219	3198 031 01030	10kΩ 5% 0402
3220	3198 039 33090	33Ω 1%
3224	2322 706 71203	12kΩ 5% 0402
3225	2322 706 71003	10kΩ 5% 0402
3226	3198 031 01030	10kΩ 5% 0402
3228	3198 021 31510	150Ω 5% 0.062W 0603
3229	3198 031 05610	560Ω 5% 0.01W 0402
3262	2322 706 71003	10kΩ 5% 0402
3263	2322 706 71003	10kΩ 5% 0402
3264	3198 031 05610	560Ω 5% 0.01W 0402
3265	3198 031 01020	1kΩ 5% 0402
3268	3198 031 01020	1kΩ 5% 0402
3269	3198 031 02720	2.7kΩ 5% 0.01W 0402
3270	3198 039 15010	150Ω 1%
3271	3198 039 15010	150Ω 1%
3292	3198 021 35610	560Ω 5% 0.062W 0603
3300	2322 706 72204	220kΩ 5% 0402
3301	2322 706 72204	220kΩ 5% 0402
3304	3198 021 31020	1kΩ 5% 0.062W 0603
3306	2322 706 71003	10kΩ 5% 0402
3307	2322 704 61203	12kΩ 1% 0603
3308	3198 021 31020	1kΩ 5% 0.062W 0603
3311	2322 734 62204	220kΩ 1% 0805
3312	3198 021 31020	1kΩ 5% 0.062W 0603
3313	2322 704 67502	7.5kΩ 1% 0.5W
3317	2322 704 67502	7.5kΩ 1% 0.5W
3318	3198 031 01030	10kΩ 5% 0402
3319	3198 031 01030	10kΩ 5% 0402
3320	2322 706 71003	10kΩ 5% 0402
3321	3198 021 31020	1kΩ 5% 0.062W 0603
3322	2322 706 73902	3.9kΩ 1% 0402
3323	2322 706 71003	10kΩ 5% 0402
3324	3198 021 31020	1kΩ 5% 0.062W 0603
3325	3198 021 34710	470Ω 5% 0603
3326	3198 031 04720	4.7kΩ 5% 0402
3327	3198 031 01030	10kΩ 5% 0402
3328	3198 021 31030	10kΩ 5% 0.062W 0603
3329	3198 031 01030	10kΩ 5% 0402
3330	3198 031 04740	470kΩ 5% 0402
3332	2322 706 76803	68kΩ 5% 0402
3333	3198 021 31020	1kΩ 5% 0.062W 0603
3334	2322 706 71003	10kΩ 5% 0402
3335	2322 706 71503	15kΩ 5% 1W 0402
3340	3198 021 31020	1kΩ 5% 0.062W 0603
3341	3198 031 01030	10kΩ 5% 0402
3342	3198 021 31030	10kΩ 5% 0.062W 0603
3343	3198 021 31020	1kΩ 5% 0.062W 0603
3344	3198 021 31020	1kΩ 5% 0.062W 0603
3345	3198 031 01020	1kΩ 5% 0402
3346	3198 031 01020	1kΩ 5% 0402
3347	3198 021 33310	330Ω 5% 0.062W 0603
3348	3198 021 33310	330Ω 5% 0.062W 0603
3349	3198 021 31020	1kΩ 5% 0.062W 0603
3350	3198 021 34720	4.7kΩ 5% 0603
3351	3198 021 31030	10kΩ 5% 0.062W 0603
3352	3198 021 31030	10kΩ 5% 0.062W 0603
3353	3198 031 01030	10kΩ 5% 0402
3354	3198 031 04720	4.7kΩ 5% 0402
3356	3198 031 05610	560Ω 5% 0.01W 0402
3358	3198 021 32220	2.2kΩ 5% 0603
3359	3198 031 05620	5.6kΩ 5% 0.01W 0402
3360	3198 031 01220	1.2kΩ 5% 0.01W 0402
3361	3198 031 04720	4.7kΩ 5% 0402
3362	3198 031 02720	2.7kΩ 5% 0.01W 0402
3363	3198 021 31020	1kΩ 5% 0.062W 0603
3364	3198 021 32720	2.7kΩ 5% 0603
3366	3198 031 01030	10kΩ 5% 0402
3367	3198 021 31030	10kΩ 5% 0.062W 0603
3369	3198 031 04720	4.7kΩ 5% 0402
3370	2322 675 20907	PTC 470Ω 50% 25V 0805
3373	3198 031 04720	4.7kΩ 5% 0402
3374	3198 031 04730	47Ω 5% 0402
3376	3198 031 04730	47Ω 5% 0402
3377	3198 031 04720	4.7kΩ 5% 0402
3378	3198 031 01030	10kΩ 5% 0402
3380	3198 031 04730	47Ω 5% 0402
3381	3198 031 04730	47Ω 5% 0402
3383	3198 031 01030	10kΩ 5% 0402
3384	3198 031 01030	10kΩ 5% 0402
3386	3198 021 31010	100Ω 5% 0.062W 0603
3388	3198 021 31020	1kΩ 5% 0.062W 0603
3389	3198 021 31020	1kΩ 5% 0.062W 0603
3390	3198 031 01020	1kΩ 5% 0402
3391	3198 031 01030	10kΩ 5% 0402
3392	3198 031 04730	47Ω 5% 0402
3393	3198 031 04730	47Ω 5% 0402
3394	3198 031 04730	47Ω 5% 0402
3395	3198 031 01540	150kΩ 5% 0402
3397	3198 031 04730	47Ω 5% 0402
3398	3198 031 04730	47Ω 5% 0402
3399	3198 031 05620	5.6kΩ 5% 0.01W 0402
3400	2322 595 90022	VDR 1mA/612V 1120V
3401	2322 242 13105	1MΩ 5%
3404	3198 013 02210	220Ω 20% 0.5W
3450	2322 662 93131	PTC 10Ω
3451	2322 662 93131	PTC 10Ω
3452	2122 612 00068	NTC 1Ω 20% 6W
3460	3198 031 02220	2.2kΩ 5% 0402
3461	3198 031 01030	10kΩ 5% 0402
3463	3198 031 01030	10kΩ 5% 0402
3465	3198 031 01030	10kΩ 5% 0402
3467	3198 031 01030	10kΩ 5% 0402
3469	3198 031 04720	4.7kΩ 5% 0402
3470	3198 031 01030	10kΩ 5% 0402
3471	3198 031 01020	1kΩ 5% 0402
3472	3198 031 01020	1kΩ 5% 0402
3501	3198 021 31020	1kΩ 5% 0.062W 0603
3502	3198 021 34710	470Ω 5% 0603
3503	2322 706 74702	4.7kΩ 5% 0402
3504	2322 706 73303	33kΩ 5% 0402
3505	2322 706 74702	4.7kΩ 5% 0402
3506	2322 662 93131	PTC 10Ω
3507	3198 021 56840	680kΩ 5% 0805
3508	3198 012 26880	6Ω8 5% 2W
3509	3198 039 12090	12Ω 1%
3603	3198 021 54740	470kΩ 5% 0805
3604	3198 021 54740	470kΩ 5% 0805
3605	3198 021 54740	470kΩ 5% 0805
3606	3198 021 31010	100Ω 5% 0.062W 0603
3607	3198 021 32240	220kΩ 5% 0603
3608	3198 039 12090	12Ω 1%

3609	3198 021 54740	470kΩ 5% 0805
3610	3198 039 33080	3.3Ω 1%
3611	3198 039 10030	10kΩ 1%
3613	3198 031 01030	10kΩ 5% 0402
3614	2322 194 95001	0.27Ω 5% 2W
3615	2322 194 95001	0.27Ω 5% 2W
3616	3198 031 01230	12kΩ 5% 0402
3617	3198 031 04730	47Ω 5% 0402
3618	3198 031 03330	33kΩ 5% 0402
3619	3198 031 03320	3.3kΩ 5% 0402
3620	2322 194 95001	0.27Ω 5% 2W
3621	3198 039 22080	2.2Ω 1%
3622	3198 039 22080	2.2Ω 1%
3623	3198 031 01020	1kΩ 5% 0402
3639	3198 021 51020	1kΩ 5% 0805
3640	3198 021 33310	330Ω 5% 0.062W 0603
3641	3198 021 54710	470Ω 5% 0805
3642	3198 021 52210	220Ω 5% 0805
3643	3198 021 52210	220Ω 5% 0805
3651	3198 031 02230	22kΩ 5% 0402
3652	3198 031 01050	1MΩ 5% 0402
3654	3198 031 01030	10kΩ 5% 0402
3655	3198 031 01020	1kΩ 5% 0402
3656	3198 031 01820	1.8kΩ 5% 0.01W 0402
3659	3198 021 52210	220Ω 5% 0805
3660	3198 021 52710	270Ω 5% 0805
3661	3198 021 52710	270Ω 5% 0805
3663	2306 204 03108	Fuse NFR25 1Ω
3664	2322 706 71204	120kΩ 5% 0402
3665	2322 705 70274	270kΩ 5% 0402
3666	3198 021 31010	100Ω 5% 0.062W 0603
3668	2306 207 03102	1kΩ 5%
3669	2322 706 71204	120kΩ 5% 0402
3671	2322 706 71003	10kΩ 5% 0402
3673	2306 207 03102	1kΩ 5%
3675	2322 702 60158	1.5Ω
3676	2322 706 74702	4.7kΩ 5% 0402
3677	2322 706 74703	47kΩ 1% 0402
3678	3198 031 04730	47Ω 5% 0402
3679	2322 734 61504	150kΩ 1% 0805
3680	2322 734 62204	220kΩ 1% 0805
3681	2322 734 62204	220kΩ 1% 0805
3682	2322 734 62204	220kΩ 1% 0805
3683	3198 021 53340	330kΩ 5% 0805
3684	3198 021 53340	330kΩ 5% 0805
3685	3198 021 53340	330kΩ 5% 0805
3686	3198 021 31590	15Ω 5% 0.062W 0603
3690	3198 031 03920	3.9kΩ 5% 0402
3691	3198 031 08220	8.2kΩ 5% 0.5W
3692	3198 031 01030	10kΩ 5% 0402
3693	3198 031 02220	2.2kΩ 5% 0402
3806	3198 031 04710	470Ω 5% 0402
3807	3198 031 01030	10kΩ 5% 0402
3808	3198 031 01030	10kΩ 5% 0402
3809	3198 031 02730	27kΩ 5% 0402
3811	3198 031 01010	1Ω 5% 0402
3999	3198 031 01020	1kΩ 5% 0402
9001	3198 021 90020	Jumper 0805
9002	3198 036 90010	Wire 0.58mm
9003	3198 021 90030	Jumper 0603
9004	3198 021 90030	Jumper 0603
9009	3198 036 90010	Wire 0.58mm
9020	3198 021 90020	Jumper 0805
9028	3198 031 90010	Jumper 0402

5001	2422 531 02444	S13932-04Y
5002	3104 308 21022	BS42315-02
5004	3104 308 21022	BS42315-02
5005	3104 308 20922	DMF2807 7MHz 20A
5121	3104 308 20771	Bridge coil BD21232-00
5220	3104 308 20912	BS29238-01
5225	2422 536 00672	4.7µH 20%
5229	2422 536 00826	220µH 10%
5260	3198 018 71010	100µF 10%
5268	2422 536 00288	100µH 10%
5290	3104 308 21171	BD15403-00
5291	3198 018 72290	22µH 10%
5292	3198 018 72290	22µH 10%
5293	3198 018 72290	22µH 10%
5401	3104 308 20922	DMF2807 7MHz 20A
5402	3104 308 20922	DMF2807 7MHz 20A
5500	2422 531 00102	BS16510-01
5503	3198 018 71090	10µ 10%
5600	3104 308 20822	BS42228-02
5601	3198 018 90020	Bead 80Ω at 100MHz
5612	3198 018 90020	Bead 80Ω at 100MHz
5660	3198 018 22210	220µH 10%

6002	3198 010 10630	BAS316
6003	3198 020 53390	BZX384C33
6004	3198 010 10630	BAS316
6005	3198 010 10630	BAS316
6006	3198 010 10630	BAS316
6007	3198 010 10630	BAS316
6008	3198 010 10630	BAS316
6009	3198 010 10630	BAS316
6010	3198 010 10630	BAS316
6011	3198 010 10630	BAS316
6012	3198 020 55680	BZX384-C5V6
6018	3198 010 10630	BAS316
6019	3198 010 10630	BAS316
6021	3198 010 10740	BYV28-200
6023	3198 010 10630	BAS316
6027	3198 010 10630	BAS316
6028	3198 010 10630	BAS316
6029	3198 020 56880	BZX384-C6V8
6031	3198 020 55680	BZX384-C5V6
6032	3198 020 55680	BZX384-C5V6
6033	9340 576 56115	BZX384-C47
6034	3198 010 10630	BAS316
6035	3198 010 10630	BAS316
6042	9340 576 56115	BZX384-C47
6044	9322 202 88687	STTH2003CFP
6045	3198 010 10740	BYV28-200
6050	3198 020 51890	BZX384-C18
6054	9340 553 52115	BAS321
6055	9340 553 52115	BAS321
6061	3198 020 51890	BZX384-C18
6062	3198 020 51890	BZX384-C18
6075	9322 213 87685	BZG03C270
6077	9322 213 87685	BZG03C270
6086	3198 010 10630	BAS316
6111	9340 553 52115	BAS321
6112	9340 553 52115	BAS321
6113	3198 010 10630	BAS316
6114	3198 020 56880	BZX384-C6V8
6117	3198 020 51890	BZX384-C18
6120	9322 250 24687	STTH802FP
6123	3198 010 10630	BAS316
6133	3198 010 10630	BAS316
6134	3198 010 10630	BAS316
6142	9322 192 15668	SM S3J
6201	3198 020 55680	BZX384-C5V6
6202	3198 010 10630	BAS316
6204	3198 020 55680	BZX384-C5V6
6205	3198 020 51890	BZX384-C18
6206	3198 010 10630	BAS316
6211	9322 202 55685	BYG22D
6213	3198 010 10630	BAS316
6216	3198 020 51890	BZX384-C18
6225	9322 173 47687	STPS20L40CFP
6230	9322 082 82668	SS34
6267	9322 161 77682	SB540L-7024
6269	9322 099 61685	BYG10J
6270	9322 099 61685	BYG10J
6291	9322 199 41687	STPS8H100FP
6292	9322 199 41687	STPS8H100FP
6312	3198 010 10660	BAT54
6313	3198 010 10660	BAT54
6321	3198 010 10660	BAT54
6322	3198 010 10660	BAT54
6325	3198 020 56880	BZX384-C6V8
6333	3198 010 10660	BAT54
6334	3198 010 10660	BAT54
6335	3198 010 10630	BAS316
6340	3198 010 10660	BAT54
6341	3198 010 10660	BAT54
6344	3198 020 53380	BZX384-C3V3
6347	3198 010 10660	BAT54
6362	3198 010 10630	BAS316
6364	3198 010 10630	BAS316
6365	3198 010 10630	BAS316
6366	3198 010 10630	BAS316
6367	3198 010 10630	BAS316
6375	3198 010 10630	BAS316
6376	3198 010 10630	BAS316
6378	3198 010 10660	BAT54
6460	3198 010 10630	BAS316
6461	3198 010 10630	BAS316
6470	3198 010 10630	BAS316
6471	3198 010 10630	BAS316
6501	9322 218 64673	BZT03C200
6502	9322 218 64673	BZT03C200
6503	9322 176 76668	RS1J
6504	9322 176 76668	RS1J
6505	9322 082 82668	SS34
6506	9322 218 64673	BZT03C200
6507	9322 082 82668	SS34
6508	9322 128 69685	S1D
6510	9322 099 61685	BYG10J
6511	9322 099 61685	BYG10J
6512	9322 099 61685	BYG10J
6513	9322 099 61685	BYG10J
6600	9322 177 84667	GBU8JL-7014
6601	9340 576 54115	BZX384-C39
6602	3198 020 51590	BZX384C15
6605	9322 192 15668	SM S3J
6606	9322 192 15668	SM S3J
6608	3198 010 10710	SS14
6609	9322 208 81685	BZG05C18
6611	9340 555 59127	BYV29X500
6640	3198 010 10710	SS14
6641	3198 010 10630	BAS316
6642	3198 010 10710	SS14
6643	3198 020 51890	BZX384-C18
6651	3198 010 10660	BAT54
6652	3198 010 10710	SS14
6653	3198 020 58280	BZX384-C8V2
6654	3198 010 10630	BAS316
6660	9322 202 55685	BYG22D
6661	9322 202 55685	BYG22D
6663	9322 198 81685	SL04
6665	9322 198 81685	SL04
6666	9340 548 57115	PDZ8.2B

7001	9322 108 21682	MC34067P
7002	9322 149 04682	TCET1102
7003	9322 149 04682	TCET1102
7004	9322 192 17685	P0102BL
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	3198 020 43430	BC327-25
7008	3198 020 43430	BC327-25
7009	3198 010 42310	BC847BW
7010	9322 192 16685	TS2431AI
7011	9322 192 16685	TS2431AI
7012	3198 010 42310	BC847BW
7013	9339 172 40115	BCP56
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7020	9335 671 30126	BC517
7021	9335 671 30126	BC517
7042	9340 308 50135	PMST5401
7050	9322 241 13687	SUP85N15-21-E3
7050	9340 557 16127	PSMN035-150P
7052	9322 237 50668	SUD25N15-52-E3
7052	9340 557 58118	PSMN063-150D
7058	3198 010 42310	BC847BW
7059	9340 308 60135	PMST5550
7090	3198 010 42320	BC857BW
7091	3198 010 42320	BC857BW
7092	3198 010 44350	BC807-25W
7093	3198 010 70590	LM317T
7110	9340 308 50135	PMST5401
7112	9352 673 56112	TEA1507p/N1
7117	9340 557 17118	PSMN035-150B
7120	9322 149 04682	TCET1102
7121	9322 192 16685	TS2431AI
7130	9322 192 16685	TS2431AI
7134	3198 010 42310	BC847BW
7200	9322 235 99685	SI2328DS-E3
7200	9340 565 06215	BSH114
7202	9322 235 98685	FET POW SM 2N7002
7202	9340 125 00235	BSN20
7212	9352 673 56112	TEA1507p/N1
7217	9340 557 18127	PSMN070-200P
7220	9322 149 04682	TCET1102
7227	9322 192 16685	TS2431AI
7230	9322 205 64687	L4940P85
7260	9322 166 31682	L4973V3.3
7304	9322 192 16685	TS2431AI
7308	9322 213 16668	LM339PW
7308	9322 213 35668	LM339P
7326	3198 010 42310	BC847BW
7327	3198 010 42310	BC847BW
7330	9322 213 16668	LM339PW
7330	9322 213 35668	LM339P
7341	3198 010 42320	BC857BW
7348	3198 010 42310	BC847BW
7351	3198 010 42310	BC847BW
7352	3198 010 42310	BC847BW
7362	3198 010 42310	BC847BW
7363	3198 010 42310	BC847BW
7364	3198 010 42310	BC847BW
7365	3198 010 42310	BC847BW
7366	9322 185 74668	LM324P
7366	9322 213 19668	LM324APW
7375	3198 010 42310	BC847BW
7376	3198 010 42310	BC847BW

7391	3198 010 42320	BC857BW
7460	3198 010 44340	BC817-25W
7461	9336 787 80115	BC869
7465	3198 010 42320	BC857BW
7470	3198 010 44340	BC817-25W
7500	9322 037 99682	TNY256P
7501	9322 149 04682	TCET1102
7502	9322 192 16685	TS2431AI
7540	9322 134 45668	LD1117DT33
7601	3198 010 42310	BC847BW
7602	3198 010 42320	BC857BW
7608	3198 010 40170	BC369
7610	9322 223 21687	STW29NK50Z
7640	9322 235 98685	2N7002
7640	9340 125 00235	BSN20
7641	3198 010 44340	BC817-25W
7650	9322 130 69682	MC33368P
7654	3198 010 42320	BC857BW
7655	3198 010 42310	BC847BW
7656	3198 010 42310	BC847BW
7661	9322 033 40668	MC34063ADG

Small Signal Board [B]

Various

1101	2422 025 18749	Connector 3p m
1102	3139 147 23351	Tun UV1318SD/ACPHN4
1104	2422 549 44372	SAW 38.9MHz K3953L
1106	2422 549 44369	SAW 38.9MHz K9656L
1107	2422 025 18749	Connector 3p m
1202	2422 543 01414	Xtal 24.576MHz
1301	2422 025 10768	Connector 3p m
1304	4822 252 51187	19398E1(0,500A)
1401	4822 267 31729	Connector cinch 1p
1402	4822 267 10459	Connector 3p
1500	2422 025 18872	Connector 32p f
1600	3112 297 13381	Tuner TD1316/SPHP
1700	2422 033 00364	Connector smartcard
1801	2422 543 01133	Xtal 14.32MHz 20pF
1F00	2422 033 00515	Socket DVI-I 29p f
1F01	2422 026 05703	Socket Cinch 1p f
1G01	2422 025 18959	Socket 21P f shd
1G02	2422 025 18959	Socket 21P f shd
1G03	2422 025 18872	Connector 32p f
1J00	2422 025 10771	Connector 10p m
1J01	2422 025 10655	Connector 11p m
1J04	2422 025 10769	Connector 9p m
1J07▲	2422 086 11081	Fuse T3A 125V
1J08	2422 086 11105	Fuse F630mA 50V
1J08	4822 051 10008	Jumper 1206
1K00	2422 025 08149	Connector 6p m
1K02	2422 025 10768	Connector 3p m
1K04	2422 025 10655	Connector 11p m
1M01	2422 025 18744	Connector 9p m
1M02	2422 025 18742	Connector 7p m
1M03	2422 025 18738	Connector 3p m
1M04	2422 025 19515	Connector 3p m
1N01	2422 025 17274	Connector 10p m
1N02	2422 025 18779	Connector 4p m
1N05	2722 171 08825	Xtal 14.31818Mhz 15pF
1P01	2422 549 45325	Bead 67Ω at 100MHz
1P02	2422 549 45325	Bead 67Ω at 100MHz
1P03	2422 549 45325	Bead 67Ω at 100MHz
1P04	2422 549 45325	Bead 67Ω at 100MHz
1P05	2422 549 45325	Bead 67Ω at 100MHz
1P07	2422 025 18427	Connector 31p f

⊣⊢

2100	4822 124 23002	10µF 16V
2101	4822 124 12095	100µF 20% 16V
2101	4822 124 23002	10µF 16V
2102	4822 124 23002	10µF 16V
2102	5322 126 11583	10nF 10% 50V 0603
2103	2238 586 59812	100nF 20% 50V 0603
2103	5322 126 11583	10nF 10% 50V 0603
2104	2238 586 59812	100nF 20% 50V 0603
2104	4822 122 33761	22pF 5% 50V
2105	2238 586 59812	100nF 20% 50V 0603
2105	4822 122 33761	22pF 5% 50V
2106	2238 586 59812	100nF 20% 50V 0603
2106	5322 126 11583	10nF 10% 50V 0603
2107	2238 586 59812	100nF 20% 50V 0603
2107	3198 024 44730	47nF 50V 0603
2108	2238 586 59812	100nF 20% 50V 0603
2109	2238 586 59812	100nF 20% 50V 0603
2109	5322 124 41945	22µF 20% 35V
2110	2238 586 59812	100nF 20% 50V 0603
2111	2238 586 59812	100nF 20% 50V 0603
2112	2238 586 59812	100nF 20% 50V 0603
2113	2238 586 59812	100nF 20% 50V 0603
2113	4822 124 12095	100µF 20% 16V
2114	2238 586 59812	100nF 20% 50V 0603
2115	2238 586 59812	100nF 20% 50V 0603
2116	2238 586 59812	100nF 20% 50V 0603
2119	2238 586 59812	100nF 20% 50V 0603
2120	2238 586 59812	100nF 20% 50V 0603
2121	2238 586 59812	100nF 20% 50V 0603
2130	4822 124 23002	10µF 16V
2131	4822 124 23002	10µF 16V
2132	4822 124 23002	10µF 16V
2133	4822 124 23002	10µF 16V
2203	4822 124 23002	10µF 16V
2204	2238 586 59812	100nF 20% 50V 0603
2206	2020 552 00183	2.2µF 10% 6.3V 0603
2206	4822 124 23002	10µF 16V
2207	2020 552 96718	220nF 10% 6.3V 0402
2207	2238 586 59812	100nF 20% 50V 0603
2208	2238 586 59812	100nF 20% 50V 0603
2208	4822 124 12084	1µF 20% 50V
2209	2238 586 59812	100nF 20% 50V 0603
2209	4822 124 23002	10µF 16V
2210	2020 552 96718	220nF 10% 6.3V 0402
2210	2238 586 59812	100nF 20% 50V 0603
2211	2020 552 96628	10nF 10% 16V 0402
2211	2238 586 59812	100nF 20% 50V 0603
2212	2238 586 59812	100nF 20% 50V 0603
2213	2238 586 59812	100nF 20% 50V 0603
2214	2020 552 96618	1nF 10% 50V 0402
2214	2238 586 59812	100nF 20% 50V 0603
2216	2020 552 96618	1nF 10% 50V 0402
2218	3198 035 71040	100nF 10% 16V 0402
2221	4822 124 12095	100µF 20% 16V
2223	2238 869 15101	100pF 5% 50V 0402
2225	2020 552 96618	1nF 10% 50V 0402
2226	3198 035 03320	3.3nF 5% 50V 0402
2227	2020 552 96618	1nF 10% 50V 0402
2228	3198 035 71040	100nF 10% 16V 0402
2230	3198 035 71040	100nF 10% 16V 0402
2231	2020 552 96718	220nF 10% 6.3V 0402
2232	3198 035 71040	100nF 10% 16V 0402
2233	4822 124 23002	10µF 16V
2234	2020 552 96718	220nF 10% 6.3V 0402
2235	2020 552 96718	220nF 10% 6.3V 0402
2236	4822 126 14076	220nF +80/-20% 25V
2237	2020 552 96718	220nF 10% 6.3V 0402
2238	2020 552 96718	220nF 10% 6.3V 0402
2239	3198 035 71040	100nF 10% 16V 0402
2240	2020 552 96718	220nF 10% 6.3V 0402
2241	2020 552 96718	220nF 10% 6.3V 0402
2242	3198 035 71040	100nF 10% 16V 0402
2243	4822 124 23002	10µF 16V
2244	3198 035 71040	100nF 10% 16V 0402
2245	3198 035 71040	100nF 10% 16V 0402
2246	3198 035 71040	100nF 10% 16V 0402
2250	2020 552 96618	1nF 10% 50V 0402
2251	2020 552 96656	10µF 20% 25V 1210
2252	3198 035 71040	100nF 10% 16V 0402
2253	3198 035 71040	100nF 10% 16V 0402
2254	3198 035 71040	100nF 10% 16V 0402
2255	3198 035 71040	100nF 10% 16V 0402
2256	4822 124 23002	10µF 16V
2257	3198 035 71040	100nF 10% 16V 0402
2258	2020 552 96637	10µF 10% 6.3V 0805
2259	3198 035 71040	100nF 10% 16V 0402
2260	2020 552 96637	10µF 10% 6.3V 0805
2262	4822 124 12082	10µF 20% 50V
2263	3198 035 26820	6.8nF 10% 16V 0402
2264	3198 017 44740	470nF 10V 0603
2265	3198 017 41050	1µF 10V 0603
2266	3198 035 71040	100nF 10% 16V 0402
2267	2020 552 96718	220nF 10% 6.3V 0402
2269	2022 031 00373	470µF 20% 16V
2270	3198 035 71040	100nF 10% 16V 0402
2271	4822 124 12095	100µF 20% 16V
2272	3198 035 71040	100nF 10% 16V 0402
2273	2020 552 96718	220nF 10% 6.3V 0402
2274	3198 017 31540	150nF 10V 0603
2277	3198 035 71040	100nF 10% 16V 0402
2280	2020 552 00027	4.7µF 2% 6.3V 0603
2281	2020 552 00027	4.7µF 2% 6.3V 0603
2285▲	3198 035 71040	100nF 10% 16V 0402
2286	3198 035 71040	100nF 10% 16V 0402
2290▲	2222 240 59872	4.7µF 5% 10V 0805
2291▲	3198 035 71040	100nF 10% 16V 0402
2292	3198 035 71040	100nF 10% 16V 0402
2300	4822 126 13881	470pF 5% 50V
2301	4822 124 40849	330UF 20% 16V
2302	4822 124 40207	100µF 20% 25V
2304	2020 021 91506	1000µF 20% 16V
2305	2238 586 59812	100nF 20% 50V 0603
2306	4822 124 40207	100µF 20% 25V
2308	4822 126 13881	470pF 5% 50V
2309	4822 124 40849	330UF 20% 16V
2311	2020 021 91687	470µF 20% 16V
2313	4822 126 13881	470pF 5% 50V
2314	3198 017 33330	33nF 20% 16V 0603
2315	4822 124 40849	330UF 20% 16V
2317	4822 124 40207	100µF 20% 25V
2318	2020 021 91687	470µF 20% 16V
2319	2020 021 91634	100µF 25V
2320	2238 586 59812	100nF 20% 50V 0603
2324	3198 017 44740	470nF 10V 0603
2325	3198 017 44740	470nF 10V 0603
2326	3198 017 44740	470nF 10V 0603
2327	2238 586 59812	100nF 20% 50V 0603
2328	2238 586 59812	100nF 20% 50V 0603
2329	4822 126 13193	4.7nF 10% 63V
2331	4822 126 13193	4.7nF 10% 63V
2332	4822 124 40207	100µF 20% 25V
2333	5322 126 11583	10nF 10% 50V 0603
2334	2238 586 59812	100nF 20% 50V 0603
2335	4822 124 12095	100µF 20% 16V
2336	4822 126 13193	4.7nF 10% 63V
2337	4822 124 22652	2.2µF 20% 50V
2411	2238 586 59812	100nF 20% 50V 0603
2412	2238 586 59812	100nF 20% 50V 0603
2413	2238 586 59812	100nF 20% 50V 0603
2449	3198 035 71040	100nF 10% 16V 0402
2500	3198 017 41050	1µF 10V 0603
2501	2020 552 94427	100pF 5% 50V
2501	3198 035 71040	100nF 10% 16V 0402
2502	2238 586 59812	100nF 20% 50V 0603
2502	3198 035 71040	100nF 10% 16V 0402
2503	2020 552 94427	100pF 5% 50V
2503	3198 035 71040	100nF 10% 16V 0402
2504	2238 586 59812	100nF 20% 50V 0603
2504	3198 035 71040	100nF 10% 16V 0402
2505	3198 017 41050	1µF 10V 0603
2505	3198 035 71040	100nF 10% 16V 0402
2506	3198 035 03310	330pF 5% 50V 0402
2506	4822 124 12084	1µF 20% 50V
2507	3198 035 04710	470pF 50V 0402
2507	4822 126 13193	4.7nF 10% 63V
2508	2238 869 15829	82pF 5% 50V 0402
2508	3198 017 41050	1µF 10V 0603
2509	2020 552 94427	100pF 5% 50V
2509	2238 869 15829	82pF 5% 50V 0402
2510	2020 552 94427	100pF 5% 50V
2511	2238 586 59812	100nF 20% 50V 0603
2512	4822 124 80151	47µF 16V
2513	3198 017 41050	1µF 10V 0603
2514	4822 124 12084	1µF 20% 50V
2515	4822 126 13193	4.7nF 10% 63V
2520	4822 122 33761	22pF 5% 50V
2521	4822 122 33761	22pF 5% 50V
2522	4822 126 14315	390pF 5% 50V 0603
2523	4822 126 14315	390pF 5% 50V 0603
2524	4822 122 33761	22pF 5% 50V
2525	4822 126 14315	390pF 5% 50V 0603
2526	4822 126 14315	390pF 5% 50V 0603
2527	4822 122 33761	22pF 5% 50V
2528	4822 122 33761	22pF 5% 50V
2529	4822 122 33761	22pF 5% 50V
2530	4822 126 14315	390pF 5% 50V 0603
2531	4822 126 14315	390pF 5% 50V 0603
2532	4822 122 33761	22pF 5% 50V
2533	4822 122 33761	22pF 5% 50V
2534	4822 122 33761	22pF 5% 50V
2535	4822 122 33761	22pF 5% 50V
2536	4822 122 33761	22pF 5% 50V
2537	4822 126 14315	390pF 5% 50V 0603
2538	4822 126 14315	390pF 5% 50V 0603
2539	4822 126 13879	220nF +80-20% 16V
2540	4822 126 13879	220nF +80-20% 16V
2543	4822 124 80151	47µF 16V
2544	2238 586 59812	100nF 20% 50V 0603
2550	3198 017 42240	220nF 16V Y5V 0603
2551	3198 017 41050	1µF 10V 0603
2553	3198 017 42240	220nF 16V Y5V 0603
2554	3198 017 41050	1µF 10V 0603
2555	4822 124 23002	10µF 16V
2556	2238 586 59812	100nF 20% 50V 0603
2557	4822 124 23002	10µF 16V
2558	2238 586 59812	100nF 20% 50V 0603
2603	2020 552 96834	1µF 20% 6.3V 0402
2604	3198 035 04710	470pF 50V 0402
2605	2020 552 96834	1µF 20% 6.3V 0402
2607	2238 586 59812	100nF 20% 50V 0603
2608	2020 552 96834	1µF 20% 6.3V 0402
2608	2238 586 59812	100nF 20% 50V 0603
2609	2238 586 59812	100nF 20% 50V 0603
2609	3198 035 04710	470pF 50V 0402
2610	2020 552 96834	1µF 20% 6.3V 0402
2610	2238 586 59812	100nF 20% 50V 0603
2611	2238 586 59812	100nF 20% 50V 0603
2611	4822 124 12095	100µF 20% 16V
2612	2238 586 59812	100nF 20% 50V 0603

2612	3198 017 41050	1µF 10V 0603
2613	2238 586 59812	100nF 20% 50V 0603
2614	3198 035 71040	100nF 10% 16V 0402
2614	4822 124 80151	47µF 16V
2615	2022 031 00373	470µF 20% 16V
2615	2238 586 59812	100nF 20% 50V 0603
2617	2238 586 59812	100nF 20% 50V 0603
2618	2022 031 00373	470µF 20% 16V
2618	2238 586 59812	100nF 20% 50V 0603
2619	2238 586 59812	100nF 20% 50V 0603
2620	2238 586 59812	100nF 20% 50V 0603
2621	4822 124 80151	47µF 16V
2622	4822 124 80151	47µF 16V
2623	2238 586 59812	100nF 20% 50V 0603
2624	2238 586 59812	100nF 20% 50V 0603
2625	2238 586 59812	100nF 20% 50V 0603
2626	2238 586 59812	100nF 20% 50V 0603
2627	2238 586 59812	100nF 20% 50V 0603
2628	2238 586 59812	100nF 20% 50V 0603
2629	2238 586 59812	100nF 20% 50V 0603
2630	2238 586 59812	100nF 20% 50V 0603
2631	2238 586 59812	100nF 20% 50V 0603
2632	4822 122 33741	10pF 10% 50V
2700	2238 586 59812	100nF 20% 50V 0603
2701	2238 586 59812	100nF 20% 50V 0603
2702	2238 586 59812	100nF 20% 50V 0603
2703	2238 586 59812	100nF 20% 50V 0603
2704	2238 586 59812	100nF 20% 50V 0603
2704	4822 124 23002	10µF 16V
2705	2238 586 59812	100nF 20% 50V 0603
2706	4822 124 23002	10µF 16V
2707	4822 124 23002	10µF 16V
2708	2238 586 59812	100nF 20% 50V 0603
2709	4822 124 23002	10µF 16V
2709	4822 124 80151	47µF 16V
2710	2020 552 96656	10µF 20% 25V 1210
2710	2238 586 59812	100nF 20% 50V 0603
2711	2020 552 96656	10µF 20% 25V 1210
2711	2238 586 59812	100nF 20% 50V 0603
2712	2238 586 59812	100nF 20% 50V 0603
2713	2020 012 00028	470µF 20% 16V
2713	4822 124 23002	10µF 16V
2714	3198 035 02210	220pF 5% 50V 0402
2714	5322 126 11578	1nF 10% 50V 0603
2715	2020 552 94427	100pF 5% 50V
2715	2020 552 96455	22nF 10% 16V 0402
2716	2020 012 00028	470µF 20% 16V
2730	2020 552 96656	10µF 20% 25V 1210
2731	2022 031 00373	470µF 20% 16V
2733	3198 035 02210	220pF 5% 50V 0402
2734	2238 787 16641	22nF 10% 16V 0402
2735	3198 035 04710	470pF 50V 0402
2736	2022 031 00308	22µF 20% 35V
2737	2022 031 00373	470µF 20% 16V
2738	4822 124 80151	47µF 16V
2739	4822 124 80151	47µF 16V
2741	4822 126 13879	220nF +80-20% 16V
2750	2020 552 00183	2.2µF 10% 6.3V 0603
2753	2022 031 00373	470µF 20% 16V
2755	3198 035 14720	4.7nF 5% 25V 0402
2756	3198 035 04710	470pF 50V 0402
2757	2022 031 00373	470µF 20% 16V
2758	2022 031 00373	470µF 20% 16V
2761	2020 552 96671	1µF 10% 25V
2762	4822 124 23237	22µF 6.3V
2800	2020 021 91557	100µF 20% 16V
2801	3198 035 71040	100nF 10% 16V 0402
2802	3198 035 71040	100nF 10% 16V 0402
2803	3198 035 71040	100nF 10% 16V 0402
2804	3198 035 71040	100nF 10% 16V 0402
2805	3198 035 71040	100nF 10% 16V 0402
2806	3198 035 71040	100nF 10% 16V 0402
2807	3198 035 71040	100nF 10% 16V 0402
2808	3198 035 71040	100nF 10% 16V 0402
2809	3198 035 71040	100nF 10% 16V 0402
2810	3198 035 71040	100nF 10% 16V 0402
2811	3198 035 71040	100nF 10% 16V 0402
2812	3198 035 71040	100nF 10% 16V 0402
2813	3198 035 71040	100nF 10% 16V 0402
2814	3198 035 71040	100nF 10% 16V 0402
2815	5322 124 41945	22µF 20% 35V
2816	3198 035 71040	100nF 10% 16V 0402
2817	3198 035 71040	100nF 10% 16V 0402
2818	3198 035 71040	100nF 10% 16V 0402
2819	3198 035 71040	100nF 10% 16V 0402
2820	3198 035 71040	100nF 10% 16V 0402
2821	3198 035 71040	100nF 10% 16V 0402
2822	3198 035 71040	100nF 10% 16V 0402
2823	4822 126 14519	22pF 5% 50V 0402
2824	4822 126 14519	22pF 5% 50V 0402
2900	3198 035 71040	100nF 10% 16V 0402
2901	2020 552 96618	1nF 10% 50V 0402
2902	2020 021 00046	470µF 20% 16V
2903	3198 035 71040	100nF 10% 16V 0402
2904	4822 124 80151	47µF 16V
2905	2020 021 91557	100µF 20% 16V
2906	3198 035 71040	100nF 10% 16V 0402
2907	3198 035 71040	100nF 10% 16V 0402
2908	3198 035 71040	100nF 10% 16V 0402
2909	3198 035 71040	100nF 10% 16V 0402
2910	3198 035 71040	100nF 10% 16V 0402
2911	3198 035 71040	100nF 10% 16V 0402
2912	3198 035 71040	100nF 10% 16V 0402
2913	3198 035 71040	100nF 10% 16V 0402
2914	3198 035 71040	100nF 10% 16V 0402
2915	3198 035 71040	100nF 10% 16V 0402
2916	3198 035 71040	100nF 10% 16V 0402
2917	2020 021 91557	100µF 20% 16V
2918	3198 035 71040	100nF 10% 16V 0402
2919	3198 035 71040	100nF 10% 16V 0402
2920	3198 035 71040	100nF 10% 16V 0402
2921	3198 035 71040	100nF 10% 16V 0402
2922	3198 035 71040	100nF 10% 16V 0402
2923	3198 035 71040	100nF 10% 16V 0402
2924	3198 035 71040	100nF 10% 16V 0402
2925	3198 035 71040	100nF 10% 16V 0402
2926	3198 035 71040	100nF 10% 16V 0402
2927	3198 035 71040	100nF 10% 16V 0402
2928	3198 035 71040	100nF 10% 16V 0402
2929	3198 035 71040	100nF 10% 16V 0402
2930	3198 035 71040	100nF 10% 16V 0402
2931	3198 035 71040	100nF 10% 16V 0402
2932	3198 035 71040	100nF 10% 16V 0402
2933	3198 035 71040	100nF 10% 16V 0402
2934	4822 124 80151	47µF 16V
2935	3198 035 71040	100nF 10% 16V 0402
2936	3198 035 71040	100nF 10% 16V 0402
2937	3198 035 71040	100nF 10% 16V 0402
2938	3198 035 71040	100nF 10% 16V 0402
2939	3198 035 71040	100nF 10% 16V 0402
2940	4822 124 80151	47µF 16V
2941	3198 035 71040	100nF 10% 16V 0402
2942	3198 035 71040	100nF 10% 16V 0402
2945	5322 124 41945	22µF 20% 35V
2946	3198 035 71040	100nF 10% 16V 0402
2947	3198 035 71040	100nF 10% 16V 0402
2948	3198 035 71040	100nF 10% 16V 0402
2949	3198 035 71040	100nF 10% 16V 0402
2950	5322 124 41945	22µF 20% 35V
2951	3198 035 71040	100nF 10% 16V 0402
2952	3198 035 71040	100nF 10% 16V 0402
2953	3198 035 71040	100nF 10% 16V 0402
2954	3198 035 71040	100nF 10% 16V 0402
2955	5322 124 41945	22µF 20% 35V
2956	3198 035 71040	100nF 10% 16V 0402
2957	3198 035 71040	100nF 10% 16V 0402
2958	3198 035 71040	100nF 10% 16V 0402
2959	3198 035 71040	100nF 10% 16V 0402
2A00	2238 586 59812	100nF 20% 50V 0603
2A01	2238 869 15101	100pF 5% 50V 0402
2A02	2238 869 15101	100pF 5% 50V 0402
2A12	2020 552 96628	10nF 10% 16V 0402
2A13	3198 035 71040	100nF 10% 16V 0402
2B01	4822 124 80151	47µF 16V
2B02	4822 124 11131	47µF 6.3V
2B03	3198 035 71040	100nF 10% 16V 0402
2B04	3198 035 71040	100nF 10% 16V 0402
2B05	3198 035 71040	100nF 10% 16V 0402
2B06	3198 035 71040	100nF 10% 16V 0402
2B07	3198 035 71040	100nF 10% 16V 0402
2B08	3198 035 71040	100nF 10% 16V 0402
2B09	3198 035 71040	100nF 10% 16V 0402
2B10	3198 035 71040	100nF 10% 16V 0402
2B11	3198 035 71040	100nF 10% 16V 0402
2B12	3198 035 71040	100nF 10% 16V 0402
2B13	3198 035 71040	100nF 10% 16V 0402
2B14	3198 035 71040	100nF 10% 16V 0402
2B15	3198 035 71040	100nF 10% 16V 0402
2B16	3198 035 71040	100nF 10% 16V 0402
2B17	3198 035 71040	100nF 10% 16V 0402
2B18	5322 124 41945	22µF 20% 35V
2C00	3198 035 71040	100nF 10% 16V 0402
2C01	4822 124 23002	10µF 16V
2C02	3198 035 71040	100nF 10% 16V 0402
2C03	3198 035 71040	100nF 10% 16V 0402
2D02	2020 552 00134	22µF 20% 6.3V 0805
2D02	2020 552 96637	10µF 10% 6.3V 0805
2D03	2238 869 15101	100pF 5% 50V 0402
2D04	2020 552 96628	10nF 10% 16V 0402
2D11	2022 552 05615	2.2µF 10% 6.3V 0805
2D11	2250 200 13667	2.2µF 10% 6.3V 0805
2D14	2222 580 15649	100nF 10% 50V 0805
2D17	2222 580 15649	100nF 10% 50V 0805
2D19	2222 580 15649	100nF 10% 50V 0805
2D20	2222 580 15649	100nF 10% 50V 0805
2D21	2222 580 15649	100nF 10% 50V 0805
2D22	2020 021 00215	220µF 20% 25V
2D23	2020 021 00215	220µF 20% 25V
2D26	2022 552 05679	1µF 10% 16V 0805
2D27	2022 552 05679	1µF 10% 16V 0805
2D28	2020 021 00215	220µF 20% 25V
2D30	2020 552 96628	10nF 10% 16V 0402
2D31	2020 552 96628	10nF 10% 16V 0402
2D32	2020 552 96621	1.5nF 10% 50V 0402
2D35	2020 552 96621	1.5nF 10% 50V 0402
2D36	2020 552 96621	1.5nF 10% 50V 0402
2D37	2020 552 96621	1.5nF 10% 50V 0402
2D38	2222 580 15649	100nF 10% 50V 0805
2D39	2020 552 96621	1.5nF 10% 50V 0402
2D40	2020 552 96621	1.5nF 10% 50V 0402
2D41	2222 580 15649	100nF 10% 50V 0805
2D43	2222 580 15649	100nF 10% 50V 0805
2D45	2222 580 15649	100nF 10% 50V 0805
2D45	4822 126 14585	100nF 10% 0805 50V
2D46	2222 580 15649	100nF 10% 50V 0805
2D46	4822 126 14585	100nF 10% 0805 50V
2D47	2020 552 96621	1.5nF 10% 50V 0402
2D48	2020 552 96621	1.5nF 10% 50V 0402
2D49	2020 552 96621	1.5nF 10% 50V 0402
2D50	2020 552 96621	1.5nF 10% 50V 0402
2D51	2020 552 96618	1nF 10% 50V 0402
2D52	2020 021 00215	220µF 20% 25V
2D53	2020 552 96828	470nF 20% 25V
2D54	2020 552 96828	470nF 20% 25V
2D55	2020 552 96621	1.5nF 10% 50V 0402
2D63	2020 552 96628	10nF 10% 16V 0402
2D64	3198 034 02280	2.2pF 1% 50V 0402
2D65	3198 034 02280	2.2pF 1% 50V 0402
2D66	3198 034 02280	2.2pF 1% 50V 0402
2D67	2238 586 59812	100nF 20% 50V 0603
2D68	2238 586 59812	100nF 20% 50V 0603
2D71	3198 034 01080	1pF 1% 50V 0402
2D71	3198 034 04780	4.7pF 50V NP0 0402
2D72	3198 034 01080	1pF 1% 50V 0402
2D72	3198 034 04780	4.7pF 50V NP0 0402
2D73	2020 552 96628	10nF 10% 16V 0402
2E03	3198 035 71040	100nF 10% 16V 0402
2E04	2020 552 96834	1µF 20% 6.3V 0402
2E05	2020 552 96834	1µF 20% 6.3V 0402
2E06	2020 552 96834	1µF 20% 6.3V 0402
2E07	4822 126 14324	33pF 5% 50V 0402
2E08	2020 552 00005	4.7µF 10% 6.3V 0603
2E09	4822 126 14324	33pF 5% 50V 0402
2E10	2020 552 00005	4.7µF 10% 6.3V 0603
2E11	4822 126 14324	33pF 5% 50V 0402
2E12	2020 552 00005	4.7µF 10% 6.3V 0603
2E13	3198 017 41050	1µF 10V 0603
2E14	4822 126 14324	33pF 5% 50V 0402
2E15	3198 035 71040	100nF 10% 16V 0402
2E16	3198 035 71040	100nF 10% 16V 0402
2E17	3198 035 71040	100nF 10% 16V 0402
2E18	3198 035 71040	100nF 10% 16V 0402
2E19	3198 035 71040	100nF 10% 16V 0402
2E20	4822 124 11131	47µF 6.3V
2E21	2020 552 00005	4.7µF 10% 6.3V 0603
2E22	2020 552 00005	4.7µF 10% 6.3V 0603
2E23	2020 552 00005	4.7µF 10% 6.3V 0603
2E24	3198 035 71040	100nF 10% 16V 0402
2E25	3198 035 71040	100nF 10% 16V 0402
2E26	3198 035 71040	100nF 10% 16V 0402
2E27	3198 035 71040	100nF 10% 16V 0402
2E28	3198 035 71040	100nF 10% 16V 0402
2E29	3198 035 71040	100nF 10% 16V 0402
2E30	3198 035 71040	100nF 10% 16V 0402
2E31	3198 035 71040	100nF 10% 16V 0402
2E32	3198 035 71040	100nF 10% 16V 0402
2E33	2020 552 00005	4.7µF 10% 6.3V 0603
2E34	2020 552 00005	4.7µF 10% 6.3V 0603
2E35	2020 552 00005	4.7µF 10% 6.3V 0603
2E36	3198 035 71040	100nF 10% 16V 0402
2F04	2020 552 94427	100pF 5% 50V
2F07	2238 586 59812	100nF 20% 50V 0603
2F08	4822 126 14241	330pF 0603 50V
2F09	4822 126 14241	330pF 0603 50V
2F10	2020 552 94427	100pF 5% 50V
2F11	4822 126 14241	330pF 0603 50V
2F12	4822 126 14241	330pF 0603 50V
2F13	4822 126 14508	180pF 5% 50V 0603
2F14	4822 126 14508	180pF 5% 50V 0603
2F15	2020 552 00183	2.2µF 10% 6.3V 0603
2F16	2020 552 00183	2.2µF 10% 6.3V 0603
2G05	4822 126 14241	330pF 0603 50V
2G06	4822 126 14508	180pF 5% 50V 0603
2G07	4822 124 23002	10µF 16V
2G08	2020 552 00183	2.2µF 10% 6.3V 0603
2G09	4822 126 14241	330pF 0603 50V
2G10	4822 126 14508	180pF 5% 50V 0603
2G11	4822 124 23002	10µF 16V
2G12	2020 552 00183	2.2µF 10% 6.3V 0603
2G18	4822 126 14241	330pF 0603 50V
2G19	4822 126 14508	180pF 5% 50V 0603
2G20	4822 124 23002	10µF 16V

2G21	2020 552 00183	2.2µF 10% 6.3V 0603
2G22	4822 126 14241	330pF 0603 50V
2G23	4822 126 14508	180pF 5% 50V 0603
2G24	4822 124 23002	10µF 16V
2G25	2020 552 00183	2.2µF 10% 6.3V 0603
2G26	2020 552 00005	4.7µF 10% 6.3V 0603
2G28	2020 552 00005	4.7µF 10% 6.3V 0603
2G29	4822 124 23002	10µF 16V
2G30	2238 586 59812	100nF 20% 50V 0603
2G31	2238 586 59812	100nF 20% 50V 0603
2G32	2238 586 59812	100nF 20% 50V 0603
2G33	3198 017 42240	220nF 16V Y5V 0603
2G34	4822 124 23002	10µF 16V
2G35	2238 586 59812	100nF 20% 50V 0603
2G36	2020 552 00027	4.7µF 2% 6.3V 0603
2G36	3198 017 41050	1µF 10V 0603
2G37	4822 051 30331	330Ω 5% 0.062W
2G38	2020 552 00027	4.7µF 2% 6.3V 0603
2G38	3198 017 41050	1µF 10V 0603
2G39	2020 552 00027	4.7µF 2% 6.3V 0603
2G39	3198 017 41050	1µF 10V 0603
2G41	4822 051 30331	330Ω 5% 0.062W
2G43	5322 126 11578	1nF 10% 50V 0603
2G45	5322 126 11578	1nF 10% 50V 0603
2G46	5322 126 11578	1nF 10% 50V 0603
2G47	2238 586 59812	100nF 20% 50V 0603
2G55	2020 552 00005	4.7µF 10% 6.3V 0603
2G56	2020 552 00005	4.7µF 10% 6.3V 0603
2G63	2020 552 00183	2.2µF 10% 6.3V 0603
2G64	2020 552 00183	2.2µF 10% 6.3V 0603
2G65	2020 552 00005	4.7µF 10% 6.3V 0603
2G66	2020 552 00005	4.7µF 10% 6.3V 0603
2J02	2020 552 96618	1nF 10% 50V 0402
2J03	2020 552 96618	1nF 10% 50V 0402
2J17	2020 552 96618	1nF 10% 50V 0402
2J18	2238 869 15101	100pF 5% 50V 0402
2J19	2238 869 15101	100pF 5% 50V 0402
2J21	2238 869 15101	100pF 5% 50V 0402
2J22	2238 869 15101	100pF 5% 50V 0402
2J23	2238 869 15101	100pF 5% 50V 0402
2J26	2238 869 15101	100pF 5% 50V 0402
2J27	2238 869 15101	100pF 5% 50V 0402
2J28	2238 869 15101	100pF 5% 50V 0402
2J29	2238 869 15101	100pF 5% 50V 0402
2J30	2020 552 96618	1nF 10% 50V 0402
2J31	2238 869 15101	100pF 5% 50V 0402
2J35	2020 552 96618	1nF 10% 50V 0402
2J36	2020 552 96618	1nF 10% 50V 0402
2K00	2020 552 96618	1nF 10% 50V 0402
2K01	2020 552 96618	1nF 10% 50V 0402
2K02	2238 869 15109	10pF 5% 50V 0402
2K03	2238 869 15109	10pF 5% 50V 0402
2K04	2238 869 15109	10pF 5% 50V 0402
2K05	2238 869 15109	10pF 5% 50V 0402
2K06	2238 869 15101	100pF 5% 50V 0402
2K07	2238 869 15101	100pF 5% 50V 0402
2K08	2020 552 00183	2.2µF 10% 6.3V 0603
2K10	2238 869 15101	100pF 5% 50V 0402
2K11	2238 869 15101	100pF 5% 50V 0402
2K12	2020 552 00183	2.2µF 10% 6.3V 0603
2K13	2238 869 15101	100pF 5% 50V 0402
2K14	2238 869 15101	100pF 5% 50V 0402
2K16	2238 869 15101	100pF 5% 50V 0402
2K17	2238 869 15101	100pF 5% 50V 0402
2K18	2238 869 15101	100pF 5% 50V 0402
2K19	2020 552 96618	1nF 10% 50V 0402
2K20	2020 552 96618	1nF 10% 50V 0402
2K21	2238 869 15101	100pF 5% 50V 0402
2K22	2238 869 15101	100pF 5% 50V 0402
2K23	2238 869 15101	100pF 5% 50V 0402
2K24	2238 869 15101	100pF 5% 50V 0402
2K25	2238 869 15101	100pF 5% 50V 0402
2K26	2238 869 15101	100pF 5% 50V 0402
2K27	2238 869 15101	100pF 5% 50V 0402
2K28	2238 869 15101	100pF 5% 50V 0402
2L02	2020 552 96637	10µF 10% 6.3V 0805
2L03	3198 035 71040	100nF 10% 16V 0402
2L04	3198 035 71040	100nF 10% 16V 0402
2L05	3198 035 71040	100nF 10% 16V 0402
2L06	3198 035 71040	100nF 10% 16V 0402
2L07	2020 552 96637	10µF 10% 6.3V 0805
2L08	3198 035 71040	100nF 10% 16V 0402
2L09	3198 035 71040	100nF 10% 16V 0402
2L10	3198 035 71040	100nF 10% 16V 0402
2L11	3198 035 71040	100nF 10% 16V 0402
2L13	3198 035 74730	47nF 5% 16V 0402
2L17	3198 035 74730	47nF 5% 16V 0402
2L20	3198 035 71040	100nF 10% 16V 0402
2L21	3198 035 71040	100nF 10% 16V 0402
2L22	2020 552 96637	10µF 10% 6.3V 0805
2L23	3198 035 71040	100nF 10% 16V 0402
2L24	3198 035 71040	100nF 10% 16V 0402
2L26	2020 552 96718	220nF 10% 6.3V 0402
2L27	4822 124 23002	10µF 16V
2L28	4822 124 23002	10µF 16V
2L29	4822 124 23002	10µF 16V
2L30	4822 124 23002	10µF 16V
2L31	4822 124 12095	100µF 20% 16V
2L32	4822 124 12095	100µF 20% 16V
2L33	3198 035 71040	100nF 10% 16V 0402
2L34	3198 035 71040	100nF 10% 16V 0402
2L37	4822 126 14524	68pF 5% 50V 0402
2L39	2238 869 15829	82pF 5% 50V 0402
2M00	3198 035 71040	100nF 10% 16V 0402
2M01	3198 035 71040	100nF 10% 16V 0402
2M02	3198 035 71040	100nF 10% 16V 0402
2M03	3198 035 71040	100nF 10% 16V 0402
2M04	3198 035 71040	100nF 10% 16V 0402
2M05	3198 035 71040	100nF 10% 16V 0402
2M06	3198 035 71040	100nF 10% 16V 0402
2M07	3198 035 71040	100nF 10% 16V 0402
2M08	3198 035 71040	100nF 10% 16V 0402
2M09	3198 035 71040	100nF 10% 16V 0402
2M10	2020 552 96618	1nF 10% 50V 0402
2M10	3198 035 71040	100nF 10% 16V 0402
2M11	2020 552 96618	1nF 10% 50V 0402
2M11	3198 035 71040	100nF 10% 16V 0402
2M12	2020 552 96618	1nF 10% 50V 0402
2M12	3198 035 71040	100nF 10% 16V 0402
2M13	2020 552 96618	1nF 10% 50V 0402
2M13	3198 035 71040	100nF 10% 16V 0402
2M14	2020 552 96618	1nF 10% 50V 0402
2M14	3198 035 71040	100nF 10% 16V 0402
2M15	2020 552 96623	2.2nF 10% 50V 0402
2M15	3198 035 71040	100nF 10% 16V 0402
2M16	2020 552 96623	2.2nF 10% 50V 0402
2M16	3198 035 71040	100nF 10% 16V 0402
2M17	2020 552 96623	2.2nF 10% 50V 0402
2M17	3198 035 71040	100nF 10% 16V 0402
2M18	2020 552 96623	2.2nF 10% 50V 0402
2M18	3198 035 71040	100nF 10% 16V 0402
2M19	2020 552 96618	1nF 10% 50V 0402
2M19	3198 035 71040	100nF 10% 16V 0402
2M20	3198 035 71040	100nF 10% 16V 0402
2M21	2020 552 00183	2.2µF 10% 6.3V 0603
2M22	3198 035 71040	100nF 10% 16V 0402
2M23	4822 124 12095	100µF 20% 16V
2M24	3198 035 71040	100nF 10% 16V 0402
2M25	3198 035 71040	100nF 10% 16V 0402
2M26	3198 035 71040	100nF 10% 16V 0402
2M27	3198 035 71040	100nF 10% 16V 0402
2M28	3198 035 71040	100nF 10% 16V 0402
2M29	3198 035 71040	100nF 10% 16V 0402
2M30	3198 035 71040	100nF 10% 16V 0402
2M31	4822 124 12095	100µF 20% 16V
2M32	4822 124 12095	100µF 20% 16V
2M56	4822 124 12095	100µF 20% 16V
2M65	3198 035 71040	100nF 10% 16V 0402
2M66	4822 124 12095	100µF 20% 16V
2M67	3198 035 71040	100nF 10% 16V 0402
2M68	4822 124 12095	100µF 20% 16V
2N01	3198 035 71040	100nF 10% 16V 0402
2N02	3198 035 71040	100nF 10% 16V 0402
2N03	2020 552 96834	1µF 20% 6.3V 0402
2N04	2020 552 96618	1nF 10% 50V 0402
2N05	3198 035 71040	100nF 10% 16V 0402
2N06	3198 035 71040	100nF 10% 16V 0402
2N07	3198 035 71040	100nF 10% 16V 0402
2N08	3198 035 71040	100nF 10% 16V 0402
2N09	3198 035 71040	100nF 10% 16V 0402
2N10	3198 035 71040	100nF 10% 16V 0402
2N11	2238 869 15101	100pF 5% 50V 0402
2N12	2238 869 15101	100pF 5% 50V 0402
2N13	2238 869 15101	100pF 5% 50V 0402
2N14	2238 869 15101	100pF 5% 50V 0402
2N15	2238 869 15101	100pF 5% 50V 0402
2N16	2238 869 15101	100pF 5% 50V 0402
2P01	2020 552 00183	2.2µF 10% 6.3V 0603
2P02	3198 035 71040	100nF 10% 16V 0402
2P03	3198 035 71040	100nF 10% 16V 0402
2P04	3198 035 71040	100nF 10% 16V 0402
2P05	3198 035 71040	100nF 10% 16V 0402
2P06	3198 035 71040	100nF 10% 16V 0402
2P07	3198 035 71040	100nF 10% 16V 0402
2P08	3198 035 71040	100nF 10% 16V 0402
2P09	3198 035 71040	100nF 10% 16V 0402
2P10	3198 035 71040	100nF 10% 16V 0402
2P11	3198 035 71040	100nF 10% 16V 0402
2P12	3198 035 71040	100nF 10% 16V 0402
2P13	3198 035 71040	100nF 10% 16V 0402
2P14	3198 035 71040	100nF 10% 16V 0402
2P15	4822 124 12095	100µF 20% 16V
2P16	3198 035 71040	100nF 10% 16V 0402
2P17	2020 552 00183	2.2µF 10% 6.3V 0603
2P18	2020 552 00183	2.2µF 10% 6.3V 0603
2P19	3198 035 71040	100nF 10% 16V 0402
2P20	3198 035 71040	100nF 10% 16V 0402
2P21	3198 035 71040	100nF 10% 16V 0402
2P22	2020 552 00183	2.2µF 10% 6.3V 0603
2P23	3198 035 71040	100nF 10% 16V 0402
2P24	3198 035 71040	100nF 10% 16V 0402
2P25	3198 035 71040	100nF 10% 16V 0402
2P26	3198 035 71040	100nF 10% 16V 0402
2P27	3198 035 71040	100nF 10% 16V 0402
2P28	3198 035 71040	100nF 10% 16V 0402
2P29	3198 035 71040	100nF 10% 16V 0402
2P30	3198 035 71040	100nF 10% 16V 0402
2P31	3198 035 71040	100nF 10% 16V 0402
2P32	3198 035 71040	100nF 10% 16V 0402
2P33	3198 035 71040	100nF 10% 16V 0402
2P34	3198 035 71040	100nF 10% 16V 0402
2P35	3198 035 71040	100nF 10% 16V 0402
2P36	2238 869 15109	10pF 5% 50V 0402
2P37	2238 869 15109	10pF 5% 50V 0402
2P38	2238 869 15109	10pF 5% 50V 0402
2P39	2238 869 15109	10pF 5% 50V 0402
2P40	2238 869 15109	10pF 5% 50V 0402
2P41	2238 869 15109	10pF 5% 50V 0402
2P42	2238 869 15109	10pF 5% 50V 0402
2P43	2238 869 15109	10pF 5% 50V 0402
2P44	2238 869 15109	10pF 5% 50V 0402
2P45	2238 869 15109	10pF 5% 50V 0402

–WW–

3100	4822 051 30103	10kΩ 5% 0.062W
3101	4822 051 30103	10kΩ 5% 0.062W
3103	4822 117 13606	10kΩ 5% 0.01W 0402
3104	4822 051 30103	10kΩ 5% 0.062W
3105	4822 117 13548	1kΩ 5% 0402
3107	4822 051 30682	6.8Ω 5% 0.062W
3108	4822 051 30222	2.2kΩ 5% 0.062W
3109	4822 051 30222	2.2kΩ 5% 0.062W
3111	4822 051 30223	22kΩ 5% 0.062W
3112	4822 051 30103	10kΩ 5% 0.062W
3112	4822 051 30183	18kΩ 5% 0.062W
3116	4822 051 30103	10kΩ 5% 0.062W
3117	4822 051 30103	10kΩ 5% 0.062W
3119	4822 051 30103	10kΩ 5% 0.062W
3120	4822 117 13606	10kΩ 5% 0.01W 0402
3121	4822 117 13606	10kΩ 5% 0.01W 0402
3122	4822 117 13545	100Ω 1% 0402
3123	4822 117 13545	100Ω 1% 0402
3124	4822 117 13545	100Ω 1% 0402
3125	4822 117 13545	100Ω 1% 0402
3128	4822 051 30103	10kΩ 5% 0.062W
3130	4822 051 30103	10kΩ 5% 0.062W
3131	4822 051 30103	10kΩ 5% 0.062W
3133	3198 021 32290	22Ω 5% 0603
3134	3198 021 32290	22Ω 5% 0603
3135	3198 021 32290	22Ω 5% 0603
3137	4822 051 30103	10kΩ 5% 0.062W
3138	4822 051 30103	10kΩ 5% 0.062W
3139	4822 051 30339	33Ω 5% 0.062W
3140	5322 117 13036	1.2kΩ 1% 0.063W 0603
3141	4822 051 30103	10kΩ 5% 0.062W
3142	4822 051 30101	100Ω 5% 0.062W
3143	4822 051 30101	100Ω 5% 0.062W
3144	4822 051 30101	100Ω 5% 0.062W
3146	4822 051 30101	100Ω 5% 0.062W
3147	4822 051 30101	100Ω 5% 0.062W
3151	4822 051 30103	10kΩ 5% 0.062W
3154	4822 051 30103	10kΩ 5% 0.062W
3156	3198 031 13390	4 x 33Ω 5% 1206
3157	3198 031 13390	4 x 33Ω 5% 1206
3158	3198 031 13390	4 x 33Ω 5% 1206
3159	3198 031 13390	4 x 33Ω 5% 1206
3160	4822 051 30339	33Ω 5% 0.062W
3161	4822 051 30339	33Ω 5% 0.062W
3162	4822 051 30339	33Ω 5% 0.062W
3163	4822 051 30103	10kΩ 5% 0.062W
3200	4822 051 30332	3.3Ω 5% 0.062W
3205	4822 051 30103	10kΩ 5% 0.062W
3206	4822 051 30332	3.3Ω 5% 0.062W
3207	3198 031 06810	680Ω 5% 0.01W 0402
3207	4822 051 30332	3.3Ω 5% 0.062W
3208	4822 117 13545	100Ω 1% 0402
3209	4822 051 30101	100Ω 5% 0.062W
3209	4822 117 13545	100Ω 1% 0402
3210	4822 051 30101	100Ω 5% 0.062W
3210	4822 117 13545	100Ω 1% 0402
3211	4822 051 30103	10kΩ 5% 0.062W
3211	4822 117 13545	100Ω 1% 0402
3212	4822 117 13545	100Ω 1% 0402
3213	4822 117 13545	100Ω 1% 0402
3214	3198 031 06810	680Ω 5% 0.01W 0402
3215	3198 031 02710	270Ω 5% 0.1W 0402
3216	4822 117 13597	330Ω 5% 0.01W 0402
3217	4822 117 13548	1kΩ 5% 0402
3218	4822 117 11297	100kΩ 5% 0.1W
3219	4822 117 13545	100Ω 1% 0402

3220	3198 031 04730	47Ω 5% 0402
3222	4822 117 13545	100Ω 1% 0402
3223	3198 031 01090	10Ω 5% 0.01W 0402
3224	3198 031 04720	4.7kΩ 5% 0402
3225	3198 031 04720	4.7kΩ 5% 0402
3226	4822 117 13545	100Ω 1% 0402
3227	4822 117 13545	100Ω 1% 0402
3229	3198 031 04720	4.7kΩ 5% 0402
3230	4822 117 13606	10kΩ 5% 0.01W 0402
3231	4822 117 13602	2.2kΩ 5% 0.01W 0402
3232	3198 031 03320	3.3kΩ 5% 0402
3233	3198 031 03320	3.3kΩ 5% 0402
3234	3198 031 04720	4.7kΩ 5% 0402
3235	3198 031 04720	4.7kΩ 5% 0402
3236	3198 031 04720	4.7kΩ 5% 0402
3238	4822 117 13545	100Ω 1% 0402
3239	4822 117 13545	100Ω 1% 0402
3240	2322 704 61002	1kΩ 1%
3241	4822 117 13545	100Ω 1% 0402
3242	4822 117 13606	10kΩ 5% 0.01W 0402
3243	3198 031 04720	4.7kΩ 5% 0402
3245	3198 031 02240	220kΩ 5% 0.1W 0402
3246	3198 031 04720	4.7kΩ 5% 0402
3247	4822 117 13545	100Ω 1% 0402
3248	4822 117 13545	100Ω 1% 0402
3249	3198 031 04720	4.7kΩ 5% 0402
3250	4822 117 13545	100Ω 1% 0402
3251	4822 117 13545	100Ω 1% 0402
3252	4822 117 13545	100Ω 1% 0402
3253	4822 117 13545	100Ω 1% 0402
3255	4822 117 13605	Jumper 0402
3256	4822 117 13605	Jumper 0402
3257	4822 117 13605	Jumper 0402
3258	4822 117 13548	1kΩ 5% 0402
3259	4822 117 13548	1kΩ 5% 0402
3260	4822 117 13548	1kΩ 5% 0402
3262	4822 117 13601	22kΩ 5% 0402
3263	2322 702 70398	3.9Ω 5% 0603
3264	4822 117 13601	22kΩ 5% 0402
3265	2322 702 70398	3.9Ω 5% 0603
3266	3198 031 05620	5.6kΩ 5% 0.01W 0402
3267	3198 031 05620	5.6kΩ 5% 0.01W 0402
3268	4822 117 13545	100Ω 1% 0402
3272	3198 031 04720	4.7kΩ 5% 0402
3273	4822 117 13548	1kΩ 5% 0402
3274	3198 031 03910	390Ω 1% 0402
3275	4822 117 13545	100Ω 1% 0402
3276	3198 031 07590	75Ω 5% 0402
3277	3198 031 01520	1.2kΩ 5% 0.01W 0402
3280⚠	4822 117 11151	1Ω 5%
3281	3198 031 03930	39kΩ 5% 0402
3282	4822 051 30151	150Ω 5% 0.062W
3285	4822 117 13605	Jumper 0402
3286	4822 117 13545	100Ω 1% 0402
3292⚠	3198 031 01230	12kΩ 5% 0402
3294⚠	3198 031 04730	47Ω 5% 0402
3295⚠	4822 117 11297	100kΩ 5% 0.1W
3296	4822 117 13545	100Ω 1% 0402
3300	3198 021 31080	1Ω 5% 0603
3301	3198 021 31080	1Ω 5% 0603
3303	3198 021 31080	1Ω 5% 0603
3304	5322 117 13046	1.8kΩ 1% 0.063W 0603
3306	2322 704 61002	1kΩ 1%
3307	2322 704 61001	100Ω 1% 0603
3312	3198 021 31080	1Ω 5% 0603
3313	3198 021 31080	1Ω 5% 0603
3314	3198 021 31080	1Ω 5% 0603
3315	4822 051 30102	1kΩ 5% 0.062W
3316	4822 051 30102	1kΩ 5% 0.062W
3317	2322 704 63302	3.3kΩ 1% 0603
3318	3198 021 31080	1Ω 5% 0603
3319	3198 021 31080	1Ω 5% 0603
3320	3198 021 31080	1Ω 5% 0603
3321	3198 021 31080	1Ω 5% 0603
3322	5322 117 13042	3.9kΩ 1% 0.063W 0603
3323	5322 117 13057	820Ω 1% 0.063W 0603
3324	4822 051 30102	1kΩ 5% 0.062W
3325	4822 117 13632	100kΩ 1% 0603 0.62W
3326	4822 051 30103	10kΩ 5% 0.062W
3327	4822 051 30339	33Ω 5% 0.062W
3328	4822 117 13632	100kΩ 1% 0603 0.62W
3330	3198 021 31820	1.8kΩ 5% 0.062W 0603
3331	2322 704 61001	100Ω 1% 0603
3332	5322 117 13055	75Ω 1% 0.063W 0603
3333	4822 051 30273	27kΩ 5% 0.062W
3334	4822 051 30333	33kΩ 5% 0.062W
3404	4822 051 30561	560Ω 5% 0.062W
3405	4822 051 30102	1kΩ 5% 0.062W
3406	4822 051 30102	1kΩ 5% 0.062W
3407	4822 051 30689	68Ω 5% 0.063W 0603
3411	4822 051 30181	180Ω 5% 0.062W
3431	4822 117 13548	1kΩ 5% 0402
3432	3198 031 02720	2.7kΩ 5% 0.01W 0402
3451	3198 031 04720	4.7kΩ 5% 0402
3453	4822 117 13545	100Ω 1% 0402
3454	4822 117 13545	100Ω 1% 0402
3455	4822 117 13545	100Ω 1% 0402
3456	4822 117 13545	100Ω 1% 0402
3458	4822 117 13545	100Ω 1% 0402
3459	4822 117 13545	100Ω 1% 0402
3461	4822 117 13545	100Ω 1% 0402
3462	4822 117 13545	100Ω 1% 0402
3500	4822 051 30102	1kΩ 5% 0.062W
3501	4822 117 12968	820Ω 5% 0.62W
3501	4822 117 13543	470Ω 5% 0402
3502	3198 031 04730	47Ω 5% 0402
3502	4822 051 30683	68kΩ 5% 0.062W
3503	4822 051 30102	1kΩ 5% 0.062W
3504	4822 117 13613	2.2Ω 5% 0603
3505	4822 117 12968	820Ω 5% 0.62W
3506	4822 051 30333	33kΩ 5% 0.062W
3507	4822 051 30152	1.5Ω 5% 0.062W
3508	4822 117 13613	2.2Ω 5% 0603
3509	4822 051 30102	1kΩ 5% 0.062W
3510	4822 051 30683	68kΩ 5% 0.062W
3511	4822 117 12968	820Ω 5% 0.62W
3512	4822 051 30101	100Ω 5% 0.062W
3513	4822 051 30101	100Ω 5% 0.062W
3514	4822 051 30102	1kΩ 5% 0.062W
3515	4822 051 30333	33kΩ 5% 0.062W
3516	4822 117 12968	820Ω 5% 0.62W
3517	4822 051 30152	1.5Ω 5% 0.062W
3519	4822 051 30759	75Ω 5% 0.062W
3520	4822 051 30759	75Ω 5% 0.062W
3521	4822 051 30759	75Ω 5% 0.062W
3522	4822 051 30759	75Ω 5% 0.062W
3523	4822 051 30759	75Ω 5% 0.062W
3526	4822 051 30759	75Ω 5% 0.062W
3527	4822 051 30759	75Ω 5% 0.062W
3528	5322 117 11726	10Ω 5%
3530	4822 051 30759	75Ω 5% 0.062W
3532	4822 051 30561	560Ω 5% 0.062W
3533	4822 051 30759	75Ω 5% 0.062W
3534	4822 117 12891	220kΩ 1%
3535	4822 117 13632	100kΩ 1% 0603 0.62W
3537	4822 117 12891	220kΩ 1%
3538	4822 117 13632	100kΩ 1% 0603 0.62W
3539	4822 051 30759	75Ω 5% 0.062W
3540	4822 051 30561	560Ω 5% 0.062W
3547	4822 051 30759	75Ω 5% 0.062W
3548	4822 051 30102	1kΩ 5% 0.062W
3557	4822 117 13632	100kΩ 1% 0603 0.62W
3558	4822 051 30102	1kΩ 5% 0.062W
3559	4822 051 30681	680Ω 5% 0.062W
3560	4822 051 30273	27kΩ 5% 0.062W
3561	4822 051 30271	270Ω 5% 0.062W
3562	4822 051 30151	150Ω 5% 0.062W
3563	4822 117 13632	100kΩ 1% 0603 0.62W
3564	4822 051 30102	1kΩ 5% 0.062W
3565	4822 051 30681	680Ω 5% 0.062W
3566	4822 051 30273	27kΩ 5% 0.062W
3567	4822 051 30271	270Ω 5% 0.062W
3568	4822 051 30151	150Ω 5% 0.062W
3570	4822 051 30689	68Ω 5% 0.063W 0603
3571	4822 051 30151	150Ω 5% 0.062W
3572	4822 051 30561	560Ω 5% 0.062W
3604	4822 117 13601	22kΩ 5% 0402
3605	4822 117 13601	22kΩ 5% 0402
3606	4822 051 30101	100Ω 5% 0.062W
3607	4822 051 30101	100Ω 5% 0.062W
3608	4822 051 30103	10kΩ 5% 0.062W
3609	4822 051 30472	4.7Ω 5% 0.062W
3609	4822 117 13601	22kΩ 5% 0402
3610	4822 051 30472	4.7Ω 5% 0.062W
3610	4822 117 11297	100kΩ 5% 0.1W
3611	4822 117 11297	100kΩ 5% 0.1W
3612	4822 051 30472	4.7Ω 5% 0.062W
3612	4822 117 13601	22kΩ 5% 0402
3613	4822 117 13632	100kΩ 1% 0603 0.62W
3614	4822 117 13632	100kΩ 1% 0603 0.62W
3615	4822 051 30102	1kΩ 5% 0.062W
3616	4822 117 13548	1kΩ 5% 0402
3617	4822 117 13548	1kΩ 5% 0402
3618	4822 117 13632	100kΩ 1% 0603 0.62W
3619	4822 117 13606	10kΩ 5% 0.01W 0402
3619	4822 117 13632	100kΩ 1% 0603 0.62W
3620	4822 117 13606	10kΩ 5% 0.01W 0402
3621	4822 051 30339	33Ω 5% 0.062W
3622	3198 031 13390	4 x 33Ω 5% 1206
3623	4822 051 30472	4.7Ω 5% 0.062W
3624	3198 031 13390	4 x 33Ω 5% 1206
3625	4822 051 30101	100Ω 5% 0.062W
3626	4822 051 30272	2.7kΩ 5% 0.062W
3627	4822 051 30272	2.7kΩ 5% 0.062W
3628	4822 117 13606	10kΩ 5% 0.01W 0402
3629	4822 051 30101	100Ω 5% 0.062W
3629	4822 117 13601	22kΩ 5% 0402
3630	4822 051 30101	100Ω 5% 0.062W
3630	4822 117 13602	2.2kΩ 5% 0.01W 0402
3631	4822 051 30101	100Ω 5% 0.062W
3631	4822 117 13602	2.2kΩ 5% 0.01W 0402
3632	2322 705 70569	56Ω 5% 0402
3633	2322 705 70569	56Ω 5% 0402
3635	4822 051 30339	33Ω 5% 0.062W
3636	4822 051 30684	680kΩ 5% 0.062W
3637	4822 117 12891	220kΩ 1%
3638	4822 051 30331	330Ω 5% 0.062W
3639	4822 051 30391	390Ω 5% 0.062W
3640	4822 051 30684	680kΩ 5% 0.062W
3641	4822 117 12891	220kΩ 1%
3642	4822 051 30331	330Ω 5% 0.062W
3643	4822 051 30331	330Ω 5% 0.062W
3644	3198 031 13390	4 x 33Ω 5% 1206
3645	4822 051 30103	10kΩ 5% 0.062W
3700	4822 051 30101	100Ω 5% 0.062W
3701	4822 051 30101	100Ω 5% 0.062W
3702	3198 031 13390	4 x 33Ω 5% 1206
3703	3198 031 13390	4 x 33Ω 5% 1206
3704	4822 051 30103	10kΩ 5% 0.062W
3705	3198 031 13390	4 x 33Ω 5% 1206
3707	4822 051 30103	10kΩ 5% 0.062W
3708	4822 051 30103	10kΩ 5% 0.062W
3708	4822 117 13606	10kΩ 5% 0.01W 0402
3709	3198 031 06820	6.8kΩ 5% 0.01W 0402
3709	4822 051 30103	10kΩ 5% 0.062W
3710	4822 051 30103	10kΩ 5% 0.062W
3711	4822 051 30103	10kΩ 5% 0.062W
3712	4822 051 30103	10kΩ 5% 0.062W
3712	5322 117 13031	5.6kΩ 1% 0.063W 0603
3713	2322 704 62002	2kΩ 1%
3713	2322 704 63302	3.3kΩ 1% 0603
3715	4822 051 30103	10kΩ 5% 0.062W
3716	3198 031 04720	4.7kΩ 5% 0402
3716	4822 051 30103	10kΩ 5% 0.062W
3717	4822 051 30103	10kΩ 5% 0.062W
3718	4822 051 30103	10kΩ 5% 0.062W
3719	4822 051 30103	10kΩ 5% 0.062W
3720	4822 051 30103	10kΩ 5% 0.062W
3721	4822 051 30103	10kΩ 5% 0.062W
3722	4822 051 30103	10kΩ 5% 0.062W
3723	3198 031 13390	4 x 33Ω 5% 1206
3724	3198 031 13390	4 x 33Ω 5% 1206
3725	4822 051 30339	33Ω 5% 0.062W
3726	4822 051 30339	33Ω 5% 0.062W
3727	4822 051 30479	47Ω 5% 0.062W
3728	4822 051 30479	47Ω 5% 0.062W
3729	4822 051 30479	47Ω 5% 0.062W
3730	4822 051 30479	47Ω 5% 0.062W
3731	4822 051 30479	47Ω 5% 0.062W
3732	2322 704 61002	1kΩ 1%
3732	4822 051 30479	47Ω 5% 0.062W
3733	2322 704 63302	3.3kΩ 1% 0603
3733	4822 051 30479	47Ω 5% 0.062W
3734	4822 117 13573	4 x 47Ω 5%
3734	4822 117 13602	2.2kΩ 5% 0.01W 0402
3735	4822 117 13548	1kΩ 5% 0402
3736	3198 031 04720	4.7kΩ 5% 0402
3738	4822 051 30479	47Ω 5% 0.062W
3739	4822 051 30479	47Ω 5% 0.062W
3740	3198 031 01520	1.2kΩ 5% 0.01W 0402
3740	4822 051 30479	47Ω 5% 0.062W
3741	3198 031 01520	1.2kΩ 5% 0.01W 0402
3741	4822 051 30479	47Ω 5% 0.062W
3742	3198 031 01530	15kΩ 5% 0.01W 0402
3742	4822 051 30479	47Ω 5% 0.062W
3743	4822 051 30479	47Ω 5% 0.062W
3743	4822 117 13601	22kΩ 5% 0402
3744	4822 051 30479	47Ω 5% 0.062W
3745	4822 051 30479	47Ω 5% 0.062W
3746	4822 051 30479	47Ω 5% 0.062W
3747	4822 051 30479	47Ω 5% 0.062W
3748	4822 051 30479	47Ω 5% 0.062W
3749	4822 051 30339	33Ω 5% 0.062W
3750	4822 051 30339	33Ω 5% 0.062W
3750	4822 117 13601	22kΩ 5% 0402
3751	3198 021 31080	1Ω 5% 0603
3751	4822 051 30472	4.7Ω 5% 0.062W
3752	3198 021 31080	1Ω 5% 0603
3752	4822 051 30472	4.7Ω 5% 0.062W
3753	2322 704 61002	1kΩ 1%
3754	2322 704 63302	3.3kΩ 1% 0603
3759	3198 031 01230	12kΩ 5% 0402
3761	4822 117 13545	100Ω 1% 0402
3800	4822 117 13606	10kΩ 5% 0.01W 0402
3801	2350 035 10229	4 x 22Ω 5% 1206
3802	2350 035 10229	4 x 22Ω 5% 1206
3803	2350 035 10229	4 x 22Ω 5% 1206
3804	2350 035 10229	4 x 22Ω 5% 1206
3805	2350 035 10229	4 x 22Ω 5% 1206
3806	2350 035 10229	4 x 22Ω 5% 1206
3807	2350 035 10229	4 x 22Ω 5% 1206
3808	2350 035 10229	4 x 22Ω 5% 1206

3809	2350 035 10229	4 x 22Ω 5% 1206
3810	2350 035 10229	4 x 22Ω 5% 1206
3811	2350 035 10229	4 x 22Ω 5% 1206
3812	2350 035 10229	4 x 22Ω 5% 1206
3813	2350 035 10229	4 x 22Ω 5% 1206
3814	3198 031 02290	22Ω 5% 0.1W 0402
3815	3198 031 02290	22Ω 5% 0.1W 0402
3816	3198 031 02290	22Ω 5% 0.1W 0402
3817	4822 117 13606	10kΩ 5% 0.01W 0402
3818	4822 117 13606	10kΩ 5% 0.01W 0402
3820	4822 117 13606	10kΩ 5% 0.01W 0402
3822	4822 117 13545	100Ω 1% 0402
3824	3198 031 03320	3.3kΩ 5% 0402
3825	3198 031 11030	4 x 10kΩ 5% 1206
3826	3198 031 11030	4 x 10kΩ 5% 1206
3827	4822 117 13606	10kΩ 5% 0.01W 0402
3828	4822 117 13606	10kΩ 5% 0.01W 0402
3829	4822 117 13606	10kΩ 5% 0.01W 0402
3831	4822 117 13545	100Ω 1% 0402
3832	4822 117 13545	100Ω 1% 0402
3833	3198 031 01090	10Ω 5% 0.01W 0402
3834	4822 117 13606	10kΩ 5% 0.01W 0402
3835	4822 117 13606	10kΩ 5% 0.01W 0402
3836	4822 117 13606	10kΩ 5% 0.01W 0402
3837	4822 117 13606	10kΩ 5% 0.01W 0402
3838	4822 117 13606	10kΩ 5% 0.01W 0402
3839	4822 117 13545	100Ω 1% 0402
3840	3198 031 02290	22Ω 5% 0.1W 0402
3841	4822 117 13606	10kΩ 5% 0.01W 0402
3900	3198 031 03320	3.3kΩ 5% 0402
3901	4822 117 13606	10kΩ 5% 0.01W 0402
3902	4822 117 13606	10kΩ 5% 0.01W 0402
3903	4822 117 13545	100Ω 1% 0402
3904	4822 117 13545	100Ω 1% 0402
3A00	3198 031 06890	68Ω 5% 0402
3A01	3198 031 06890	68Ω 5% 0402
3A07	4822 117 13606	10kΩ 5% 0.01W 0402
3A08	4822 117 13606	10kΩ 5% 0.01W 0402
3A10	4822 117 13606	10kΩ 5% 0.01W 0402
3A11	4822 117 13606	10kΩ 5% 0.01W 0402
3A13	4822 117 13606	10kΩ 5% 0.01W 0402
3A14	3198 031 04720	4.7kΩ 5% 0402
3A14	3198 031 05610	560Ω 5% 0.01W 0402
3B01	4822 117 12706	10kΩ 1% 0.063W 0603
3B02	4822 117 12706	10kΩ 1% 0.063W 0603
3B03	2322 704 61501	150Ω 1% 0603
3C00	4822 117 13606	10kΩ 5% 0.01W 0402
3C01	4822 117 13606	10kΩ 5% 0.01W 0402
3C02	4822 117 13548	1kΩ 5% 0402
3C04	3198 031 11030	4 x 10kΩ 5% 1206
3C05	4822 117 13606	10kΩ 5% 0.01W 0402
3C06	3198 031 11030	4 x 10kΩ 5% 1206
3C07	3198 031 11030	4 x 10kΩ 5% 1206
3C08	3198 031 11030	4 x 10kΩ 5% 1206
3C09	3198 031 11030	4 x 10kΩ 5% 1206
3C10	3198 031 11030	4 x 10kΩ 5% 1206
3C16	3198 031 11030	4 x 10kΩ 5% 1206
3C17	4822 117 13606	10kΩ 5% 0.01W 0402
3C18	4822 117 13606	10kΩ 5% 0.01W 0402
3D01	3198 031 02240	220kΩ 5% 0.1W 0402
3D01	4822 117 11297	100kΩ 5% 0.1W
3D10	3198 031 04730	47Ω 5% 0402
3D11	4822 117 13601	22kΩ 5% 0402
3D12	4822 117 13601	22kΩ 5% 0402
3D13	3198 031 02720	2.7kΩ 5% 0.01W 0402
3D14	3198 031 02240	220kΩ 5% 0.1W 0402
3D15	3198 031 04740	470kΩ 5% 0402
3D16	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D17	3198 031 02240	220kΩ 5% 0.1W 0402
3D18	3198 031 04730	47Ω 5% 0402
3D20	4822 117 13601	22kΩ 5% 0402
3D21	3198 031 02720	2.7kΩ 5% 0.01W 0402
3D22	4822 117 13606	10kΩ 5% 0.01W 0402
3D23	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D24	4822 117 13606	10kΩ 5% 0.01W 0402
3D25	4822 117 13548	1kΩ 5% 0402
3D26	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D34	2322 762 60332	3.3kΩ 5% 2512
3D35	4822 117 13548	1kΩ 5% 0402
3D37	2322 762 60332	3.3kΩ 5% 2512
3D38	4822 117 13548	1kΩ 5% 0402
3D39	2350 033 11223	22kΩ 5%
3D40	2350 033 11223	22kΩ 5%
3D42	3198 031 04730	47Ω 5% 0402
3D43	5322 117 11726	10Ω 5%
3D44	2322 762 60331	330Ω 5% 2512
3D45	2322 762 60331	330Ω 5% 2512
3D46	3198 031 04780	4.7Ω 5% 0402
3D47	3198 031 04780	4.7Ω 5% 0402
3D49	3198 031 01530	15kΩ 5% 0.01W 0402
3D50	3198 031 06820	6.8kΩ 5% 0.01W 0402
3D51	3198 031 06820	6.8kΩ 5% 0.01W 0402
3D54	3198 031 04730	47Ω 5% 0402
3D56	3198 031 01530	15kΩ 5% 0.01W 0402
3D57	3198 031 01530	15kΩ 5% 0.01W 0402
3D58	3198 031 06810	680Ω 5% 0.01W 0402
3D64	4822 117 13548	1kΩ 5% 0402
3D65	4822 117 13548	1kΩ 5% 0402
3D67	3198 031 03920	3.9kΩ 5% 0402
3D68	4822 117 11297	100kΩ 5% 0.1W
3D69	3198 031 03920	3.9kΩ 5% 0402
3D70	4822 117 11297	100kΩ 5% 0.1W
3D71	4822 117 13606	10kΩ 5% 0.01W 0402
3D72	4822 117 13606	10kΩ 5% 0.01W 0402
3D73	3198 031 05610	560Ω 5% 0.01W 0402
3D74	3198 031 05610	560Ω 5% 0.01W 0402
3D75	3198 031 04730	47Ω 5% 0402
3D76	4822 117 13601	22kΩ 5% 0402
3D78	4822 117 13601	22kΩ 5% 0402
3D79	4822 117 13601	22kΩ 5% 0402
3D81	3198 031 06810	680Ω 5% 0.01W 0402
3D82	3198 031 04730	47Ω 5% 0402
3D83	3198 031 04730	47Ω 5% 0402
3D84	3198 031 04730	47Ω 5% 0402
3D85	3198 031 04730	47Ω 5% 0402
3D86	4822 117 11297	100kΩ 5% 0.1W
3D87	3198 031 04730	47Ω 5% 0402
3D88	4822 117 13603	33kΩ 5% 0402
3D89	4822 117 13601	22kΩ 5% 0402
3D91	4822 117 13603	33kΩ 5% 0402
3E00	2322 705 70569	56Ω 5% 0402
3E01	2322 705 70569	56Ω 5% 0402
3E02	2322 705 70569	56Ω 5% 0402
3E09	3198 031 04730	47Ω 5% 0402
3E10	3198 031 04730	47Ω 5% 0402
3E11	3198 031 04730	47Ω 5% 0402
3E12	4822 117 13606	10kΩ 5% 0.01W 0402
3E13	4822 117 13597	330Ω 5% 0.01W 0402
3E14	4822 117 13597	330Ω 5% 0.01W 0402
3E15	4822 117 13597	330Ω 5% 0.01W 0402
3E16	4822 117 13597	330Ω 5% 0.01W 0402
3E17	4822 117 13597	330Ω 5% 0.01W 0402
3E18	4822 117 13597	330Ω 5% 0.01W 0402
3E19	2322 705 70569	56Ω 5% 0402
3E20	2322 705 70569	56Ω 5% 0402
3E21	2322 705 70569	56Ω 5% 0402
3E22	4822 117 13632	100kΩ 1% 0603 0.62W
3E23	3198 031 08210	820Ω 5% 0.5W
3E24	4822 117 13543	470Ω 5% 0402
3E25	2322 705 70399	39Ω 5% 0402
3E26	3198 031 02290	22Ω 5% 0.1W 0402
3E27	2322 705 70399	39Ω 5% 0402
3E28	3198 031 02290	22Ω 5% 0.1W 0402
3E29	2322 705 70399	39Ω 5% 0402
3E30	3198 031 02290	22Ω 5% 0.1W 0402
3E31	4822 117 13545	100Ω 1% 0402
3E32	4822 117 13545	100Ω 1% 0402
3E33	4822 117 13545	100Ω 1% 0402
3E34	4822 117 13545	100Ω 1% 0402
3E35	4822 117 13545	100Ω 1% 0402
3E36	4822 117 13545	100Ω 1% 0402
3E37	3198 031 02290	22Ω 5% 0.1W 0402
3E38	4822 117 13545	100Ω 1% 0402
3E39	4822 117 13545	100Ω 1% 0402
3E41	4822 117 13545	100Ω 1% 0402
3E42	4822 117 13545	100Ω 1% 0402
3E43	4822 117 13545	100Ω 1% 0402
3E44	4822 117 13545	100Ω 1% 0402
3E45	4822 117 13545	100Ω 1% 0402
3E49	3198 031 02290	22Ω 5% 0.1W 0402
3E50	3198 031 04730	47Ω 5% 0402
3E51	3198 031 04730	47Ω 5% 0402
3E52	3198 031 04730	47Ω 5% 0402
3E53	3198 031 04730	47Ω 5% 0402
3E54	3198 031 04730	47Ω 5% 0402
3E55	3198 031 04730	47Ω 5% 0402
3F00	4822 051 30759	75Ω 5% 0.062W
3F09	4822 051 30759	75Ω 5% 0.062W
3F10	3198 021 31080	1Ω 5% 0603
3F11	4822 051 30759	75Ω 5% 0.062W
3F16	4822 051 30103	10kΩ 5% 0.062W
3F17	4822 051 30103	10kΩ 5% 0.062W
3F18	4822 051 30103	10kΩ 5% 0.062W
3F19	3198 021 31080	1Ω 5% 0603
3F20	4822 051 30101	100Ω 5% 0.062W
3F21	4822 051 30102	1kΩ 5% 0.062W
3F22	4822 051 30103	10kΩ 5% 0.062W
3F23	4822 051 30102	1kΩ 5% 0.062W
3F24	4822 051 30103	10kΩ 5% 0.062W
3F25	4822 051 30103	10kΩ 5% 0.062W
3F26	4822 051 30153	15kΩ 5% 0.062W
3F27	4822 051 30153	15kΩ 5% 0.062W
3F28	4822 051 30101	100Ω 5% 0.062W
3F29	4822 051 30101	100Ω 5% 0.062W
3G00	4822 051 30151	150Ω 5% 0.062W
3G01	4822 051 30103	10kΩ 5% 0.062W
3G02	4822 117 12891	220kΩ 1%
3G03	4822 051 30153	15kΩ 5% 0.062W
3G04	4822 051 30151	150Ω 5% 0.062W
3G05	4822 051 30103	10kΩ 5% 0.062W
3G06	4822 117 12891	220kΩ 1%
3G07	4822 051 30153	15kΩ 5% 0.062W
3G08	4822 051 30151	150Ω 5% 0.062W
3G12	2122 118 06408	91Ω 5% 0603
3G13	2122 118 06408	91Ω 5% 0603
3G14	2122 118 06408	91Ω 5% 0603
3G15	4822 051 30101	100Ω 5% 0.062W
3G16	4822 051 30101	100Ω 5% 0.062W
3G17	4822 051 30101	100Ω 5% 0.062W
3G26	4822 051 30273	27kΩ 5% 0.062W
3G27	4822 051 30682	6.8Ω 5% 0.062W
3G28	4822 051 30759	75Ω 5% 0.062W
3G29	4822 051 30331	330Ω 5% 0.062W
3G30	4822 051 30689	68Ω 5% 0.063W 0603
3G31	4822 051 30759	75Ω 5% 0.062W
3G32	4822 051 30102	1kΩ 5% 0.062W
3G33	4822 051 30101	100Ω 5% 0.062W
3G34	4822 051 30102	1kΩ 5% 0.062W
3G37	4822 051 30151	150Ω 5% 0.062W
3G38	4822 051 30103	10kΩ 5% 0.062W
3G39	4822 117 12891	220kΩ 1%
3G40	4822 051 30153	15kΩ 5% 0.062W
3G41	4822 051 30151	150Ω 5% 0.062W
3G42	4822 051 30103	10kΩ 5% 0.062W
3G43	4822 117 12891	220kΩ 1%
3G44	4822 051 30153	15kΩ 5% 0.062W
3G45	4822 051 30759	75Ω 5% 0.062W
3G46	4822 051 30101	100Ω 5% 0.062W
3G47	4822 117 12925	47kΩ 1% 0.063W 0603
3G48	4822 117 12925	47kΩ 1% 0.063W 0603
3G51	4822 051 30273	27kΩ 5% 0.062W
3G52	4822 051 30682	6.8Ω 5% 0.062W
3G53	4822 051 30689	68Ω 5% 0.063W 0603
3G54	4822 051 30102	1kΩ 5% 0.062W
3G57	4822 051 30759	75Ω 5% 0.062W
3G58	4822 051 30101	100Ω 5% 0.062W
3G59	4822 117 12925	47kΩ 1% 0.063W 0603
3G60	4822 117 12925	47kΩ 1% 0.063W 0603
3G63	4822 051 30103	10kΩ 5% 0.062W
3G64	4822 051 30103	10kΩ 5% 0.062W
3G65	4822 051 30103	10kΩ 5% 0.062W
3G66	4822 051 30151	150Ω 5% 0.062W
3G67	4822 051 30153	15kΩ 5% 0.062W
3G68	4822 051 30153	15kΩ 5% 0.062W
3G69	4822 117 12925	47kΩ 1% 0.063W 0603
3G70	4822 117 12925	47kΩ 1% 0.063W 0603
3G71	4822 051 30561	560Ω 5% 0.062W
3G72	4822 051 30103	10kΩ 5% 0.062W
3G73	4822 117 12925	47kΩ 1% 0.063W 0603
3G75	4822 051 30101	100Ω 5% 0.062W
3G76	4822 051 30101	100Ω 5% 0.062W
3G77	4822 117 12925	47kΩ 1% 0.063W 0603
3G79	4822 117 12925	47kΩ 1% 0.063W 0603
3G81	4822 117 12925	47kΩ 1% 0.063W 0603
3G83	4822 051 30101	100Ω 5% 0.062W
3G84	4822 051 30101	100Ω 5% 0.062W
3G86	4822 117 12925	47kΩ 1% 0.063W 0603
3G88	4822 051 30759	75Ω 5% 0.062W
3G89	4822 117 12925	47kΩ 1% 0.063W 0603
3G92	4822 051 30223	22kΩ 5% 0.062W
3G92	4822 117 12925	47kΩ 1% 0.063W 0603
3G93	4822 117 12925	47kΩ 1% 0.063W 0603
3G94	4822 117 12925	47kΩ 1% 0.063W 0603
3G95	4822 117 12925	47kΩ 1% 0.063W 0603
3G96	4822 117 12925	47kΩ 1% 0.063W 0603
3G99	4822 117 12925	47kΩ 1% 0.063W 0603
3J05	3198 031 06890	68Ω 5% 0402
3K00	4822 117 13545	100Ω 1% 0402
3K01	4822 117 13545	100Ω 1% 0402
3K02	4822 117 13606	10kΩ 5% 0.01W 0402
3K03	3198 031 01530	15kΩ 5% 0.01W 0402
3K05	4822 117 13606	10kΩ 5% 0.01W 0402
3K06	3198 031 01530	15kΩ 5% 0.01W 0402
3K07	2322 705 70399	39Ω 5% 0402
3K09	2322 705 70399	39Ω 5% 0402
3K11	3198 031 06890	68Ω 5% 0402
3K12	3198 031 06890	68Ω 5% 0402
3K13	3198 031 06890	68Ω 5% 0402
3L00	4822 117 13548	1kΩ 5% 0402
3L04	4822 117 13605	Jumper 0402
3L05	3198 031 01510	150Ω 5% 0.01W 0402
3L06	4822 117 13605	Jumper 0402
3L10	4822 117 13597	330Ω 5% 0.01W 0402
3L11	3198 031 01510	150Ω 5% 0.01W 0402
3L12	4822 117 13548	1kΩ 5% 0402
3L16	4822 117 13605	Jumper 0402
3L17	3198 031 01510	150Ω 5% 0.01W 0402
3L19	3198 031 01510	150Ω 5% 0.01W 0402
3L20	3198 031 01510	150Ω 5% 0.01W 0402
3L21	4822 117 13602	2.2kΩ 5% 0.01W 0402
3L22	4822 117 13602	2.2kΩ 5% 0.01W 0402
3L24	4822 117 13602	2.2kΩ 5% 0.01W 0402

3L25	2350 035 10229	4 x 22Ω 5% 1206
3L26	2350 035 10229	4 x 22Ω 5% 1206
3L27	2350 035 10229	4 x 22Ω 5% 1206
3L28	2350 035 10229	4 x 22Ω 5% 1206
3L30	3198 031 02290	22Ω 5% 0.1W 0402
3L31	3198 031 02290	22Ω 5% 0.1W 0402
3L32	4822 117 13602	2.2kΩ 5% 0.01W 0402
3L33	4822 117 13596	220Ω 5% 0.01W 0402
3L34	4822 117 13605	Jumper 0402
3L35	4822 117 13596	220Ω 5% 0.01W 0402
3L36	3198 031 03320	3.3kΩ 5% 0402
3L37	3198 031 03320	3.3kΩ 5% 0402
3L38	4822 117 13605	Jumper 0402
3M01	2350 035 10689	4 x 68Ω 5%
3M02	2350 035 10689	4 x 68Ω 5%
3M03	2350 035 10689	4 x 68Ω 5%
3M04	2350 035 10689	4 x 68Ω 5%
3M04	4822 117 13545	100Ω 1% 0402
3M06	2350 035 10229	4 x 22Ω 5% 1206
3M07	2350 035 10229	4 x 22Ω 5% 1206
3M08	2350 035 10229	4 x 22Ω 5% 1206
3M09	2350 035 10229	4 x 22Ω 5% 1206
3M11	3198 031 04720	4.7kΩ 5% 0402
3M13	3198 031 04720	4.7kΩ 5% 0402
3M14	4822 117 13545	100Ω 1% 0402
3M15	4822 117 13545	100Ω 1% 0402
3M16	3198 031 04720	4.7kΩ 5% 0402
3M26	4822 117 13605	Jumper 0402
3M27	4822 117 13605	Jumper 0402
3M50	4822 117 13606	10kΩ 5% 0.01W 0402
3M51	4822 117 13606	10kΩ 5% 0.01W 0402
3M52	4822 117 13606	10kΩ 5% 0.01W 0402
3M53	4822 117 13546	47Ω 5% 0402
3M54	4822 117 13546	47Ω 5% 0402
3M55	4822 117 13546	47Ω 5% 0402
3M56	4822 117 13606	10kΩ 5% 0.01W 0402
3M57	4822 117 13546	47Ω 5% 0402
3M58	4822 117 13606	10kΩ 5% 0.01W 0402
3M59	4822 117 13546	47Ω 5% 0402
3M78	4822 117 13548	1kΩ 5% 0402
3M79	3198 031 03320	3.3kΩ 5% 0402
3M87	4822 117 13605	Jumper 0402
3M89	3198 031 02290	22Ω 5% 0.1W 0402
3M90	3198 031 02290	22Ω 5% 0.1W 0402
3N01	4822 117 13606	10kΩ 5% 0.01W 0402
3N02	4822 117 13606	10kΩ 5% 0.01W 0402
3N03	4822 117 13606	10kΩ 5% 0.01W 0402
3N04	4822 117 13606	10kΩ 5% 0.01W 0402
3N05	4822 117 13606	10kΩ 5% 0.01W 0402
3N06	4822 117 13606	10kΩ 5% 0.01W 0402
3N07	4822 051 30333	33kΩ 5% 0.062W
3N08	4822 117 13606	10kΩ 5% 0.01W 0402
3N09	4822 117 13548	1kΩ 5% 0402
3N10	4822 117 13603	33kΩ 5% 0402
3N11	4822 117 13546	47Ω 5% 0402
3N12	4822 117 13606	10kΩ 5% 0.01W 0402
3N13	4822 117 13606	10kΩ 5% 0.01W 0402
3N14	4822 117 13606	10kΩ 5% 0.01W 0402
3N15	4822 117 13546	47Ω 5% 0402
3N16	4822 117 13546	47Ω 5% 0402
3N17	4822 117 13546	47Ω 5% 0402
3N18	4822 117 13546	47Ω 5% 0402
3N19	4822 117 13606	10kΩ 5% 0.01W 0402
3N20	4822 117 13546	47Ω 5% 0402
3N21	4822 117 13545	100Ω 1% 0402
3N22	4822 117 13545	100Ω 1% 0402
3N23	4822 117 13545	100Ω 1% 0402
3N24	4822 117 13545	100Ω 1% 0402
3N25	4822 117 13545	100Ω 1% 0402
3N26	3198 031 04720	4.7kΩ 5% 0402
3N27	4822 117 13546	47Ω 5% 0402
3N28	4822 051 30181	180Ω 5% 0.062W
3N29	4822 117 13545	100Ω 1% 0402
3N30	4822 117 13545	100Ω 1% 0402
3N31	4822 117 13545	100Ω 1% 0402
3N32	4822 117 13545	100Ω 1% 0402
3N33	4822 117 13545	100Ω 1% 0402
3N34	4822 117 13545	100Ω 1% 0402
3N35	4822 117 13545	100Ω 1% 0402
3N46	4822 117 13545	100Ω 1% 0402
3N47	4822 117 13545	100Ω 1% 0402
3P01	3198 031 04720	4.7kΩ 5% 0402
3P03	4822 117 13546	47Ω 5% 0402
3P04	4822 117 13545	100Ω 1% 0402
3P04	4822 117 13605	Jumper 0402
3P05	4822 117 13545	100Ω 1% 0402
3P05	4822 117 13605	Jumper 0402
3S00	4822 117 12925	47kΩ 1% 0.063W 0603
3S03	4822 117 12925	47kΩ 1% 0.063W 0603
4211	4822 117 13605	Jumper 0402
4212	4822 117 13605	Jumper 0402
4213	4822 117 13605	Jumper 0402
4214	4822 117 13605	Jumper 0402
4215	4822 117 13605	Jumper 0402
4440	4822 117 13605	Jumper 0402
4441	4822 117 13605	Jumper 0402
4501	4822 117 13605	Jumper 0402
4502	4822 117 13605	Jumper 0402
4504	4822 117 13605	Jumper 0402
4511	4822 117 13605	Jumper 0402
4801	4822 117 13605	Jumper 0402
4A04	4822 117 13605	Jumper 0402
4J01	4822 117 13605	Jumper 0402
4K04	4822 117 13605	Jumper 0402
4K05	4822 117 13605	Jumper 0402
4L02	4822 117 13605	Jumper 0402
4L05	4822 117 13605	Jumper 0402
4M00	4822 117 13605	Jumper 0402
4M01	4822 117 13605	Jumper 0402
4M02	4822 117 13605	Jumper 0402
4M03	4822 117 13605	Jumper 0402
4M05	4822 117 13605	Jumper 0402
4M08	4822 117 13605	Jumper 0402
4M09	4822 117 13605	Jumper 0402
4M10	4822 117 13605	Jumper 0402
4M16	4822 117 13605	Jumper 0402
4M17	4822 117 13605	Jumper 0402
4N01	4822 117 13605	Jumper 0402
4N02	4822 117 13605	Jumper 0402
4N03	4822 117 13605	Jumper 0402
4N04	4822 117 13605	Jumper 0402
4N05	4822 117 13605	Jumper 0402
4N06	4822 117 13605	Jumper 0402
4N07	4822 117 13605	Jumper 0402
4N08	4822 117 13605	Jumper 0402
4N09	4822 117 13605	Jumper 0402
4N10	4822 117 13605	Jumper 0402
4N11	4822 117 13605	Jumper 0402
4N12	4822 117 13605	Jumper 0402
4N13	4822 117 13605	Jumper 0402
4N14	4822 117 13605	Jumper 0402
4N15	4822 117 13605	Jumper 0402
4N16	4822 117 13605	Jumper 0402
4N17	4822 117 13605	Jumper 0402
4N18	4822 117 13605	Jumper 0402
4N19	4822 117 13605	Jumper 0402
4N20	4822 117 13605	Jumper 0402
4N21	4822 117 13605	Jumper 0402
4N22	4822 117 13605	Jumper 0402
4P05	4822 117 13605	Jumper 0402
4P07	4822 117 13605	Jumper 0402
4P11	4822 117 13605	Jumper 0402
4P12	4822 117 13605	Jumper 0402
9D03	2350 033 91001	4 x Jumper
9D04	2350 033 91001	4 x Jumper

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5100	4822 157 11499	Bead 60Ω at 100MHz
5101	3198 018 33970	0.39µH 10% 0805
5101	4822 157 11717	Bead 50Ω at 100MHz
5102	4822 157 11717	Bead 50Ω at 100MHz
5102	4822 157 71334	0.68µH 5% 1008
5103	4822 157 11717	Bead 50Ω at 100MHz
5103	4822 157 71334	0.68µH 5% 1008
5107	2422 549 43062	Bead 600Ω at 100MHz
5108	2422 549 43062	Bead 600Ω at 100MHz
5201	4822 157 11499	Bead 60Ω at 100MHz
5201	4822 157 11716	Bead 30Ω at 100MHz
5202	4822 157 11499	Bead 60Ω at 100MHz
5202	4822 157 11716	Bead 30Ω at 100MHz
5203	4822 157 11499	Bead 60Ω at 100MHz
5203	4822 157 11716	Bead 30Ω at 100MHz
5204	2422 549 42896	Bead 120Ω 100MHz
5205	4822 157 11716	Bead 30Ω at 100MHz
5206	4822 157 11716	Bead 30Ω at 100MHz
5207	2422 549 42896	Bead 120Ω 100MHz
5208	4822 157 11716	Bead 30Ω at 100MHz
5209	4822 157 11716	Bead 30Ω at 100MHz
5210	4822 157 11716	Bead 30Ω at 100MHz
5211	4822 157 11716	Bead 30Ω at 100MHz
5212	4822 157 11716	Bead 30Ω at 100MHz
5213	4822 157 11716	Bead 30Ω at 100MHz
5214	2422 536 00667	1000µH 20% 7032
5216	4822 157 11716	Bead 30Ω at 100MHz
5218▲	2422 549 45333	Bead 120Ω at 100MHz
5300	2422 536 00491	47µH
5301	4822 157 10452	10µH 10%
5302	2422 535 94639	10µH 20%
5303	2422 536 00548	100µ
5304	4822 157 10452	10µH 10%
5305	2422 536 00548	100µ
5306	4822 157 10452	10µH 10%
5309	3198 018 90050	Bead 1kΩ at 100MHz
5401	4822 157 11499	Bead 60Ω at 100MHz
5501	3198 018 31080	1µH 10% 0805
5502	4822 157 11499	Bead 60Ω at 100MHz
5504	4822 157 11499	Bead 60Ω at 100MHz
5505	4822 157 11499	Bead 60Ω at 100MHz
5507	4822 157 11499	Bead 60Ω at 100MHz
5508	4822 157 11499	Bead 60Ω at 100MHz
5511	3198 018 52280	2.2µH 10% 0603
5512	3198 018 52280	2.2µH 10% 0603
5513	3198 018 52280	2.2µH 10% 0603
5514	3198 018 52280	2.2µH 10% 0603
5528	4822 157 11499	Bead 60Ω at 100MHz
5600	4822 157 11499	Bead 60Ω at 100MHz
5601	4822 157 11499	Bead 60Ω at 100MHz
5602	4822 157 11499	Bead 60Ω at 100MHz
5700	4822 157 11499	Bead 60Ω at 100MHz
5701	4822 157 11499	Bead 60Ω at 100MHz
5702	4822 157 11499	Bead 60Ω at 100MHz
5703	4822 157 11499	Bead 60Ω at 100MHz
5704	2422 549 45333	Bead 120Ω at 100MHz
5704	4822 157 11499	Bead 60Ω at 100MHz
5704	4822 157 63635	10µH 20% 1206
5709	2422 535 94134	10µH 20% 0805
5712	2422 536 00339	33µH 20%
5713	2422 535 94995	10µH 20%
5730	2422 535 94134	10µH 20% 0805
5733	2422 536 00689	220µH 20%
5735	2422 536 00667	1000µH 20% 7032
5737	2422 535 94134	10µH 20% 0805
5738	2422 549 45333	Bead 120Ω at 100MHz
5752	2422 535 94134	10µH 20% 0805
5753	2422 536 00689	220µH 20%
5753	2422 536 01178	470µH 20% 10145
5754	2422 535 94134	10µH 20% 0805
5900	2422 549 45333	Bead 120Ω at 100MHz
5901	2422 549 45333	Bead 120Ω at 100MHz
5902	2422 549 45333	Bead 120Ω at 100MHz
5903	2422 549 45333	Bead 120Ω at 100MHz
5904	2422 549 45333	Bead 120Ω at 100MHz
5905	2422 549 45333	Bead 120Ω at 100MHz
5906	2422 549 45333	Bead 120Ω at 100MHz
5907	2422 549 45333	Bead 120Ω at 100MHz
5908	2422 549 45333	Bead 120Ω at 100MHz
5909	2422 549 45333	Bead 120Ω at 100MHz
5910	2422 549 45333	Bead 120Ω at 100MHz
5911	2422 549 45333	Bead 120Ω at 100MHz
5A00	4822 157 11716	Bead 30Ω at 100MHz
5C00	2422 549 45333	Bead 120Ω at 100MHz
5D10	2422 549 44197	Bead 220Ω at 100MHz
5D11	2422 549 44197	Bead 220Ω at 100MHz
5D12	2422 536 00137	33µH 10%
5D12	2422 536 00707	33µH 20%
5D13	2422 536 00137	33µH 10%
5D13	2422 536 00707	33µH 20%
5D14	2422 549 44197	Bead 220Ω at 100MHz
5D15	2422 549 44197	Bead 220Ω at 100MHz
5D16	2422 549 44197	Bead 220Ω at 100MHz
5E00	2422 549 45333	Bead 120Ω at 100MHz
5E01	2422 549 45333	Bead 120Ω at 100MHz
5E02	2422 549 45333	Bead 120Ω at 100MHz
5E03	2422 549 45333	Bead 120Ω at 100MHz
5F00	2422 549 45333	Bead 120Ω at 100MHz
5F01	2422 549 45333	Bead 120Ω at 100MHz
5F02	2422 549 45333	Bead 120Ω at 100MHz
5F03	2422 549 45333	Bead 120Ω at 100MHz
5G01	2422 549 42896	Bead 120Ω 100MHz
5G02	2422 549 45333	Bead 120Ω at 100MHz
5J01	2422 549 42896	Bead 120Ω 100MHz
5J02	2422 549 42896	Bead 120Ω 100MHz
5J03	2422 549 45333	Bead 120Ω at 100MHz
5J04	2422 549 45333	Bead 120Ω at 100MHz
5L00	2422 549 45333	Bead 120Ω at 100MHz
5L01	2422 549 45333	Bead 120Ω at 100MHz
5L02	2422 549 45333	Bead 120Ω at 100MHz
5M00	2422 549 45333	Bead 120Ω at 100MHz
5M01	2422 549 45333	Bead 120Ω at 100MHz
5M02	2422 549 44197	Bead 220Ω at 100MHz
5M02	2422 549 45333	Bead 120Ω at 100MHz
5M03	2422 549 44197	Bead 220Ω at 100MHz
5M03	2422 549 45333	Bead 120Ω at 100MHz
5M04	2422 549 45333	Bead 120Ω at 100MHz
5M05	2422 549 45333	Bead 120Ω at 100MHz
5M09	2422 549 44197	Bead 220Ω at 100MHz
5M10	2422 549 44197	Bead 220Ω at 100MHz
5M11	2422 549 44197	Bead 220Ω at 100MHz
5M12	2422 549 44197	Bead 220Ω at 100MHz
5N01	4822 157 11716	Bead 30Ω at 100MHz
5N02	4822 157 11716	Bead 30Ω at 100MHz
5N03	4822 157 11716	Bead 30Ω at 100MHz
5N04	4822 157 11716	Bead 30Ω at 100MHz
5N05	4822 157 11716	Bead 30Ω at 100MHz
5P01	4822 157 11716	Bead 30Ω at 100MHz
5P02	4822 157 11716	Bead 30Ω at 100MHz
5P03	4822 157 11716	Bead 30Ω at 100MHz
5P04	4822 157 11716	Bead 30Ω at 100MHz
5P05	4822 157 11716	Bead 30Ω at 100MHz
5P06	4822 157 11716	Bead 30Ω at 100MHz

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6101	4822 130 11416	PDZ6.8B
6102	4822 130 11416	PDZ6.8B
6103	4822 130 11397	BAS316
6104	4822 130 11525	1SS356
6204	4822 130 80622	BAT54
6205	4822 130 80622	BAT54
6206	4822 130 80622	BAT54
6300	9322 128 70685	SMSS14
6303	9322 128 70685	SMSS14
6304	9322 128 70685	SMSS14
6307	9965 000 20150	1N4148WS SOD-323
6400	9340 548 52115	PDZ5.1B
6401	4822 130 10837	UDZS8.2B
6403	4822 130 10837	UDZS8.2B
6503	4822 130 11397	BAS316
6504	4822 130 11397	BAS316
6601	4822 130 10838	UDZ3.3B
6708	3198 010 10720	SS24
6709	9322 128 70685	SMSS14
6712	3198 010 10730	SS36
6733	9322 128 70685	SMSS14
6735	5322 130 34337	BAV99
6736	9340 548 71115	PDZ33B
6740	4822 130 10837	UDZS8.2B
6751	9322 128 70685	SMSS14
6D10	4822 130 11397	BAS316
6D11	9340 548 69115	PDZ27B
6D12	4822 130 11397	BAS316
6E01	9322 102 64685	UDZ2.7B
6E03	9322 102 64685	UDZ2.7B
6F00	4822 130 11397	BAS316
6F01	4822 130 11397	BAS316
6G02	4822 130 11397	BAS316
6G03	4822 130 11416	PDZ6.8B
6G04	4822 130 11416	PDZ6.8B
6G05	4822 130 11416	PDZ6.8B
6G06	4822 130 11416	PDZ6.8B
6G07	4822 130 11416	PDZ6.8B
6G08	4822 130 11416	PDZ6.8B
6G09	4822 130 11416	PDZ6.8B
6G10	4822 130 11416	PDZ6.8B
6N01	9322 085 77685	TLMG3100



7100	9352 744 74557	PNX8316HS/C102
7100	9352 773 55557	PNX8314HS/C102
7101	3198 010 42310	BC847BW
7200	9322 206 20668	M29W320DT70N6F
7201	9340 550 49115	PUMH7
7202	9322 213 88668	K4S281632F-TC60
7202	9340 550 49115	PUMH7
7203	9322 130 41668	M24C64-WMN6
7206	4822 130 60373	BC856B
7207	9322 214 45668	M24C16-WMN6P
7208	3198 010 42310	BC847BW
7209	3198 010 42310	BC847BW
7210	3198 010 42310	BC847BW
7214	9339 693 90135	BCP69-25
7215	9339 693 90135	BCP69-25
7216	9340 425 20115	BC847BS
7217	9352 780 22557	TDA15021H/N1B91 (*)
7219⚠	9322 164 91668	CD74HC4053M
7300	4822 209 60059	MC34063AP1
7301	9322 184 19687	LD1117V18
7302	9322 216 98687	LD1117V
7303	4822 209 60059	MC34063AP1
7305	4822 209 60059	MC34063AP1
7306	9322 165 15685	NCP303LSN30
7307	9322 202 15687	LD1117V50
7308	9322 202 15687	LD1117V50
7309	4822 130 60373	BC856B
7310	3198 010 70510	TL431CZ
7311	9322 214 70685	SI2314EDS-E3
7312	5322 130 60159	BC846B
7402	5322 130 60159	BC846B
7430	4822 130 11155	PDTC114ET
7436	9322 221 97668	SN74LVC14APW
7500	4822 130 60373	BC856B
7501	5322 130 60159	BC846B
7501	9322 199 16668	M74HC590T
7502	9322 201 05671	CY62256LL-70ZC
7502	9322 208 98668	M68AF031AM70N6
7502	9352 668 39118	UDA1334ATS/N2
7503	4822 130 60373	BC856B
7503	9322 199 16668	M74HC590T
7504	3198 010 42310	BC847BW
7504	5322 130 60159	BC846B
7505	5322 130 60159	BC846B
7505	9351 870 00118	74HC573PW
7506	5322 130 60159	BC846B
7506	9351 870 00118	74HC573PW
7507	5322 130 60159	BC846B
7510	5322 130 60159	BC846B
7511	4822 130 60373	BC856B
7512	5322 130 60159	BC846B
7513	4822 130 60373	BC856B
7514	5322 130 60159	BC846B
7600	9352 732 45557	TDA10046AHT/C1
7601	5322 209 70225	LM393D
7601	9322 183 05668	TS482ID
7602	9351 742 70118	74HC08PW
7603	3198 010 42310	BC847BW
7604	3198 010 42310	BC847BW
7605	9340 310 50215	PDTA143ET
7605	9352 630 16165	74AHC1GU04GW
7606	9340 425 20115	BC847BS
7606	9352 630 16165	74AHC1GU04GW
7700	9322 227 91671	STV0700L
7701	9352 190 10118	74LVC573ADB
7702	9352 190 10118	74LVC573ADB
7703	9352 115 40118	74LVC245APW
7704	2722 171 08821	XTL 27MHz 50pF
7705	9322 175 13668	ST890CD
7708	9322 139 16668	LF33CPT
7710	9322 202 34668	L5973D
7730	9322 191 07668	L5970D
7735	4822 130 42804	BC817-25
7738	9322 163 24668	L78M08CDT
7741	3198 010 42310	BC847BW
7742	3198 010 42310	BC847BW
7752	5322 209 90529	MC34063AD
7756	4822 130 11155	PDTC114ET
7758	9322 212 14668	SI4423DY
7801	9322 219 57671	GM1501H-LF-BD
7900	9322 142 88668	LF25CDT
7901	9322 189 19668	LD1086D2T18
7A00	9352 759 98118	PCA9515ADP
7A02	3198 010 42310	BC847BW
7A03	3198 010 42310	BC847BW
7B01	9322 214 42671	K4D263238F-QC50
7B01	9322 235 50671	K4D263238I-UC50
7C00	9322 229 61671	MX29LV040CQC-70G (*)
7C01	9322 206 23668	M24C32-WMN6P
7C02	9322 215 39685	PST596JN
7D10	9322 213 35668	LM339P
7D11	9340 425 20115	BC847BS
7D12	9340 425 20115	BC847BS
7D14	3198 010 42310	BC847BW
7D15	3198 010 44350	BC807-25W
7D16	9340 425 30115	BC847BPN
7D17	9340 219 30115	BC817-25W
7D18	9322 224 40668	FET FDS4559_NL
7D19	3198 010 42310	BC847BW
7D20	3198 010 44350	BC807-25W
7D21	9340 425 30115	BC847BPN
7D22	9340 219 30115	BC817-25W
7D23	9322 224 40668	FET FDS4559_NL
7D24	9340 219 30115	BC817-25W
7D25	9340 425 30115	BC847BPN
7D26	9340 425 30115	BC847BPN
7E00	9322 195 23668	ADG733BRU
7E01	9322 199 80668	SM5301BS-G
7E02	9322 199 56668	ADG781BCP
7E03	9322 164 91668	CD74HC4053M
7E04	9322 221 97668	SN74LVC14APW
7E05	9322 221 97668	SN74LVC14APW
7F03	9322 206 24668	M24C02-WMN6P (*)
7G03	3198 010 42310	BC847BW
7G05	3198 010 42310	BC847BW
7G07	9322 164 91668	CD74HC4053M
7G08	5322 130 60159	BC846B
7G09	9322 198 55668	ADG734BRU
7G10	9322 164 91668	CD74HC4053M
7L01	3198 010 42310	BC847BW
7L02	3198 010 42310	BC847BW
7L03	3198 010 42310	BC847BW
7L04	9322 212 77672	MST9883C-LF-110
7L05	4822 209 17398	LD1117DT33
7L06	9965 000 04199	BSN20
7L07	9965 000 04199	BSN20
7M00	9322 204 76671	T6TU5XBG-0001
7M01	9322 206 19672	MSM56V16160F-7T3-FG
7M03	9322 170 14668	LF15ABDT
7N01	9322 210 01668	EPCS4SI8N (*)
7N02	9322 217 35671	EP1C12F256C8N
7N03	9340 425 20115	BC847BS
7N04	9322 210 59668	THC63LVDF84B
7P01	9322 170 14668	LF15ABDT
7P02	9322 201 03668	THC63LVDM83R
(*)		Empty Device (no SW)

PDP Audio & Standby Panel [C]

Various

1735	4822 267 10918	Connector 3p
1736	2422 025 10768	Connector 3p m
1M02	4822 267 10618	Connector 7p
1M06	2422 025 11244	Connector 7p m
1M52	2422 025 10769	Connector 9p m

⊣⊢

2700	4822 126 14247	1.5nF 50V 0603
2701	5322 116 80853	560pF 5% 63V
2703	2020 552 96683	220nF 10% 50V
2704	4822 124 11767	470µF 20% 25V
2705	5322 116 80853	560pF 5% 63V
2706	5322 126 11579	3.3nF 10% 63V
2707	2222 580 15649	100nF 10% 50V 0805
2709	2020 552 96683	220nF 10% 50V
2710	2020 552 96683	220nF 10% 50V
2711	2022 552 05679	1µF 10% 16V 0805
2712	4822 126 14583	470nF 10% 16V 0805
2713	4822 126 13193	4.7nF 10% 63V
2715	4822 121 51252	470nF 5% 63V
2716	3198 017 31530	15nF 20% 50V 0603
2717	2022 552 05679	1µF 10% 16V 0805
2718	2222 580 15649	100nF 10% 50V 0805
2719	4822 126 14583	470nF 10% 16V 0805
2720	2020 021 91431	22µF 20% 100V
2721	2222 580 15649	100nF 10% 50V 0805
2722	4822 126 14583	470nF 10% 16V 0805
2723	2022 552 05679	1µF 10% 16V 0805
2726	4822 126 13193	4.7nF 10% 63V
2727	5322 116 80853	560pF 5% 63V
2731	5322 116 80853	560pF 5% 63V
2732	4822 126 14583	470nF 10% 16V 0805
2736	4822 121 51252	470nF 5% 63V
2737	3198 017 31530	15nF 20% 50V 0603
2739	2222 580 15649	100nF 10% 50V 0805
2741	4822 126 13883	220pF 5% 50V
2743	3198 016 31020	1nF 25V 0603
2744	2222 580 15649	100nF 10% 50V 0805
2745	2020 552 96683	220nF 10% 50V
2746	4822 124 11767	470µF 20% 25V
2747	2022 552 05679	1µF 10% 16V 0805
2748	4822 126 14247	1.5nF 50V 0603
2749	5322 126 11579	3.3nF 10% 63V
2751	4822 124 40433	47µF 20% 25V
2754	2020 021 91431	22µF 20% 100V
2770	3198 017 41050	1µF 10V 0603
2776	2020 021 91431	22µF 20% 100V
2780	4822 126 14583	470nF 10% 16V 0805
2784	4822 122 33761	22pF 5% 50V
2785	4822 122 33761	22pF 5% 50V
2786	4822 122 33761	22pF 5% 50V
2787	4822 122 33761	22pF 5% 50V
2789	4822 126 14583	470nF 10% 16V 0805
2791	4822 126 13879	220nF +80-20% 16V

⌐WW⌐

3700	4822 051 30561	560Ω 5% 0.062W
3701	4822 051 30479	47Ω 5% 0.062W
3702	3198 021 38220	8.2kΩ 5% 0.062W 0603
3703	3198 021 38220	8.2kΩ 5% 0.062W 0603
3704	4822 117 13632	100kΩ 1% 0603 0.62W
3705	4822 051 30222	2.2kΩ 5% 0.062W
3706	4822 051 30682	6.8Ω 5% 0.062W
3707	4822 051 30393	39kΩ 5% 0.062W
3708	4822 051 30479	47Ω 5% 0.062W
3709	4822 051 30272	2.7kΩ 5% 0.062W
3710	4822 051 30393	39kΩ 5% 0.062W
3711	2322 762 60568	5.6Ω 5% 5% 2512
3712	4822 051 30272	2.7kΩ 5% 0.062W
3713	4822 051 30332	3.3Ω 5% 0.062W
3714	4822 051 30682	6.8Ω 5% 0.062W
3715	2322 762 60568	5.6Ω 5% 5% 2512
3716	4822 117 13632	100kΩ 1% 0603 0.62W
3717	4822 051 30222	2.2kΩ 5% 0.062W
3718	4822 051 30561	560Ω 5% 0.062W
3719	4822 051 30124	120kΩ 5% 0.062W
3720	4822 051 30479	47Ω 5% 0.062W
3721	4822 051 30471	47Ω 5% 0.062W
3722	4822 051 30124	120kΩ 5% 0.062W
3723	4822 051 30471	47Ω 5% 0.062W
3724	4822 051 30102	1kΩ 5% 0.062W
3725	4822 117 12925	47kΩ 1% 0.063W 0603
3726	4822 051 30153	15kΩ 5% 0.062W
3727	4822 051 30103	10kΩ 5% 0.062W
3728	4822 051 30153	15kΩ 5% 0.062W

3729	4822 117 12925	47kΩ 1% 0.063W 0603
3730	4822 051 30223	22kΩ 5% 0.062W
3731	4822 051 30102	1kΩ 5% 0.062W
3732	4822 051 30223	22kΩ 5% 0.062W
3733	4822 051 30562	5.6kΩ 5% 0.063W 0603
3734	4822 051 30223	22kΩ 5% 0.062W
3735	4822 117 12889	270kΩ 1% 0.063W 0603
3736	4822 117 12925	47kΩ 1% 0.063W 0603
3737	4822 117 12925	47kΩ 1% 0.063W 0603
3738	4822 117 13632	100kΩ 1% 0603 0.62W
3760	4822 051 30223	22kΩ 5% 0.062W
3764	4822 117 13632	100kΩ 1% 0603 0.62W
3765	4822 117 13632	100kΩ 1% 0603 0.62W
3777	4822 051 30102	1kΩ 5% 0.062W
3778	4822 051 30479	47Ω 5% 0.062W
3999	4822 051 30472	4.7Ω 5% 0.062W
9710	4822 051 20008	Jumper 0805
9711	4822 051 20008	Jumper 0805
9712	4822 051 20008	Jumper 0805
9713	4822 051 20008	Jumper 0805
9748	4822 051 20008	Jumper 0805
9757	4822 051 20008	Jumper 0805
9758	4822 051 20008	Jumper 0805
9759	4822 051 20008	Jumper 0805
9760	4822 051 20008	Jumper 0805
9761	4822 051 20008	Jumper 0805
9762	4822 051 20008	Jumper 0805
9763	4822 051 20008	Jumper 0805
9764	4822 051 20008	Jumper 0805
9765	4822 051 20008	Jumper 0805
9766	4822 051 20008	Jumper 0805
9768	4822 051 20008	Jumper 0805
9770	4822 051 20008	Jumper 0805
9790	4822 051 20008	Jumper 0805
9795	4822 051 20008	Jumper 0805
9796	4822 051 20008	Jumper 0805
9806	4822 051 20008	Jumper 0805
9807	4822 051 20008	Jumper 0805
9808	4822 051 20008	Jumper 0805

5700	2422 536 00942	33µH 20%
5701	4822 157 11716	Bead 30Ω at 100MHz
5702	2422 536 00942	33µH 20%
5705	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz

6700	4822 130 11522	UDZ15B
6702	9322 150 18685	BZX384-C47
6703	4822 130 10838	UDZ3.3B

7700	9322 202 89668	LM393P
7701	9352 729 65112	TDA8925ST/N1
7702	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 42310	BC847BW
7707	3198 010 42310	BC847BW
7708	3198 010 42320	BC857BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW
7711	3198 010 42320	BC857BW
7712	3198 010 42310	BC847BW
7713	3198 010 42310	BC847BW

Control Panel [E]

Various

1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1706	4822 276 13775	Switch 1p 0.1A 12V
1M01	2422 025 10775	Connector 3p m

3002	4822 051 30151	150Ω 5% 0.062W
3003	4822 051 30391	390Ω 5% 0.062W
3004	4822 051 30561	560Ω 5% 0.062W
3005	4822 117 12968	820Ω 5% 0.62W
3006	3198 021 31820	1.8kΩ 5% 0.062W 0603
3999	4822 117 11454	820Ω 1% 0.1W

Side I/O Panel [G]

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	2422 026 05807	Sckt Cinch 3p f YeWhRd
1010	4822 267 31014	Sckt headphone
1M36	2422 025 17179	Connector 11p m

2003	2022 552 05679	1µF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603

3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
9004	4822 051 30008	Jumper 0603
9005	4822 051 30008	Jumper 0603
9006	4822 051 30008	Jumper 0603
9007	4822 051 30008	Jumper 0603
9008	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9010	4822 051 30008	Jumper 0603
9011	4822 051 30008	Jumper 0603

6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B

LED Panel [J]

Various

0345	2422 025 18741	Connector 6p m
1040	9322 206 81667	TSOP34836YA1

2040	4822 124 12095	100µF 20% 16V

3040	4822 117 13597	330Ω 5% 0.01W 0402
3051	4822 051 30221	220Ω 5% 0.062W
3061	4822 051 30221	220Ω 5% 0.062W
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3078	3198 031 02250	2.2MΩ 5% 0.1W 0402
9012	4822 117 13605	Jumper 0402
9041	4822 117 13605	Jumper 0402
9042	4822 117 13605	Jumper 0402
9062	4822 117 13605	Jumper 0402
9066	4822 117 13606	10kΩ 5% 0.01W 0402
9070	4822 117 13605	Jumper 0402
9081	4822 117 13605	Jumper 0402
9082	4822 117 13605	Jumper 0402
9111	4822 117 13605	Jumper 0402
9112	4822 117 13605	Jumper 0402
9115	4822 117 13605	Jumper 0402
9122	4822 117 13605	Jumper 0402

6051	9322 218 97685	SML-310VTK
6060	9322 134 46685	SML-310MT
6070	9322 140 63685	TEMD5000

7051	3198 010 42310	BC847BW
7052	3198 010 42310	BC847BW
7062	4822 130 60373	BC856B

IBO Zapper [K]

Various

1301	2422 025 10768	Connector 3p m
1304	4822 252 51187	19398E1(0,500A)
1401	4822 267 31729	Connector cinch 1p
1402	2422 025 10775	Connector 3p m
1402	4822 267 10459	Connector 3p
1403	2422 025 18799	Socket USB 4p f
1500	2422 025 18872	Connector 32p f
1600	3112 297 13381	Tuner TD1316/SPHP
1700	2422 033 00364	Connector smartcard

2100	4822 124 23002	10µF 16V
2101	4822 124 23002	10µF 16V
2102	4822 124 23002	10µF 16V
2103	2238 586 59812	100nF 20% 50V 0603
2104	2238 586 59812	100nF 20% 50V 0603
2105	2238 586 59812	100nF 20% 50V 0603
2106	2238 586 59812	100nF 20% 50V 0603
2107	2238 586 59812	100nF 20% 50V 0603
2108	2238 586 59812	100nF 20% 50V 0603
2109	2238 586 59812	100nF 20% 50V 0603
2110	2238 586 59812	100nF 20% 50V 0603
2111	2238 586 59812	100nF 20% 50V 0603
2112	2238 586 59812	100nF 20% 50V 0603
2113	2238 586 59812	100nF 20% 50V 0603
2114	2238 586 59812	100nF 20% 50V 0603
2115	2238 586 59812	100nF 20% 50V 0603
2116	2238 586 59812	100nF 20% 50V 0603
2119	2238 586 59812	100nF 20% 50V 0603
2120	2238 586 59812	100nF 20% 50V 0603
2121	2238 586 59812	100nF 20% 50V 0603
2130	4822 124 23002	10µF 16V
2131	4822 124 23002	10µF 16V
2132	4822 124 23002	10µF 16V
2133	4822 124 23002	10µF 16V
2203	4822 124 23002	10µF 16V
2204	2238 586 59812	100nF 20% 50V 0603
2206	4822 124 23002	10µF 16V
2207	2238 586 59812	100nF 20% 50V 0603
2208	2238 586 59812	100nF 20% 50V 0603
2209	2238 586 59812	100nF 20% 50V 0603
2210	2238 586 59812	100nF 20% 50V 0603
2211	2238 586 59812	100nF 20% 50V 0603
2212	2238 586 59812	100nF 20% 50V 0603
2213	2238 586 59812	100nF 20% 50V 0603
2214	2238 586 59812	100nF 20% 50V 0603
2300	4822 126 13881	470pF 5% 50V
2301	4822 124 40849	330UF 20% 16V
2302	4822 124 40207	100µF 20% 25V
2304	2020 021 91506	1000µF 20% 16V
2305	2238 586 59812	100nF 20% 50V 0603
2306	4822 124 40207	100µF 20% 25V
2308	4822 126 13881	470pF 5% 50V
2309	4822 124 40849	330UF 20% 16V
2311	2020 021 91687	470µF 20% 16V
2313	4822 126 13881	470pF 5% 50V
2314	3198 017 33330	33nF 20% 16V 0603
2315	4822 124 40849	330UF 20% 16V
2317	4822 124 40207	100µF 20% 25V
2318	2020 021 91687	470µF 20% 16V
2319	2020 021 91634	100µF 25V
2320	2238 586 59812	100nF 20% 50V 0603
2324	3198 017 44740	470nF 10V 0603
2325	3198 017 44740	470nF 10V 0603
2326	3198 017 44740	470nF 10V 0603
2327	2238 586 59812	100nF 20% 50V 0603
2328	2238 586 59812	100nF 20% 50V 0603
2329	4822 126 13193	4.7nF 10% 63V
2330	2020 021 91687	470µF 20% 16V
2331	4822 126 13193	4.7nF 10% 63V
2332	4822 124 40207	100µF 20% 25V
2333	5322 126 11583	10nF 10% 50V 0603
2334	2238 586 59812	100nF 20% 50V 0603

2335	4822 124 12095	100µF 20% 16V
2336	4822 126 13193	4.7nF 10% 63V
2337	4822 124 11947	10µF 20% 16V
2337	4822 124 22652	2.2µF 20% 50V
2403	2238 586 59812	100nF 20% 50V 0603
2405	2238 586 59812	100nF 20% 50V 0603
2406	3198 032 27190	100µF 6.3V
2411	2238 586 59812	100nF 20% 50V 0603
2412	2238 586 59812	100nF 20% 50V 0603
2413	2238 586 59812	100nF 20% 50V 0603
2500	3198 017 41050	1µF 10V 0603
2501	2020 552 94427	100pF 5% 50V
2502	2238 586 59812	100nF 20% 50V 0603
2503	2020 552 94427	100pF 5% 50V
2504	2238 586 59812	100nF 20% 50V 0603
2505	3198 017 41050	1µF 10V 0603
2506	4822 124 12084	1µF 20% 50V
2507	4822 126 13193	4.7nF 10% 63V
2508	3198 017 41050	1µF 10V 0603
2509	2020 552 94427	100pF 5% 50V
2510	2020 552 94427	100pF 5% 50V
2511	2238 586 59812	100nF 20% 50V 0603
2512	2020 012 93822	47µF 20% 16V
2512	4822 124 80151	47µF 16V
2513	3198 017 41050	1µF 10V 0603
2514	4822 124 12084	1µF 20% 50V
2515	4822 126 13193	4.7nF 10% 63V
2520	4822 122 33761	22pF 5% 50V
2521	4822 122 33761	22pF 5% 50V
2522	4822 126 14315	390pF 5% 50V 0603
2523	4822 126 14315	390pF 5% 50V 0603
2524	4822 122 33761	22pF 5% 50V
2525	4822 126 14315	390pF 5% 50V 0603
2526	4822 126 14315	390pF 5% 50V 0603
2527	4822 122 33761	22pF 5% 50V
2528	4822 122 33761	22pF 5% 50V
2529	4822 122 33761	22pF 5% 50V
2530	4822 126 14315	390pF 5% 50V 0603
2531	4822 126 14315	390pF 5% 50V 0603
2532	4822 122 33761	22pF 5% 50V
2533	4822 122 33761	22pF 5% 50V
2534	4822 122 33761	22pF 5% 50V
2535	4822 122 33761	22pF 5% 50V
2536	4822 122 33761	22pF 5% 50V
2537	4822 126 14315	390pF 5% 50V 0603
2538	4822 126 14315	390pF 5% 50V 0603
2539	4822 126 13879	220nF +80-20% 16V
2540	4822 126 13879	220nF +80-20% 16V
2543	2020 012 93822	47µF 20% 16V
2543	4822 124 80151	47µF 16V
2544	2238 586 59812	100nF 20% 50V 0603
2550	3198 017 42240	220nF 16V Y5V 0603
2550	4822 126 13879	220nF +80-20% 16V
2551	3198 017 41050	1µF 10V 0603
2553	3198 017 42240	220nF 16V Y5V 0603
2553	4822 126 13879	220nF +80-20% 16V
2554	3198 017 41050	1µF 10V 0603
2555	4822 124 23002	10µF 16V
2556	2238 586 59812	100nF 20% 50V 0603
2557	4822 124 23002	10µF 16V
2558	2238 586 59812	100nF 20% 50V 0603
2607	2238 586 59812	100nF 20% 50V 0603
2608	2238 586 59812	100nF 20% 50V 0603
2609	2238 586 59812	100nF 20% 50V 0603
2610	2238 586 59812	100nF 20% 50V 0603
2611	2238 586 59812	100nF 20% 50V 0603
2612	2238 586 59812	100nF 20% 50V 0603
2613	2238 586 59812	100nF 20% 50V 0603
2614	2020 012 93822	47µF 20% 16V
2614	4822 124 80151	47µF 16V
2615	2238 586 59812	100nF 20% 50V 0603
2617	2238 586 59812	100nF 20% 50V 0603
2618	2238 586 59812	100nF 20% 50V 0603
2619	2238 586 59812	100nF 20% 50V 0603
2620	2238 586 59812	100nF 20% 50V 0603
2621	2020 012 93822	47µF 20% 16V
2621	4822 124 80151	47µF 16V
2622	2020 012 93822	47µF 20% 16V
2622	4822 124 80151	47µF 16V
2623	2238 586 59812	100nF 20% 50V 0603
2624	2238 586 59812	100nF 20% 50V 0603
2625	2238 586 59812	100nF 20% 50V 0603
2626	2238 586 59812	100nF 20% 50V 0603
2627	2238 586 59812	100nF 20% 50V 0603
2628	2238 586 59812	100nF 20% 50V 0603
2629	2238 586 59812	100nF 20% 50V 0603
2630	2238 586 59812	100nF 20% 50V 0603
2631	2238 586 59812	100nF 20% 50V 0603
2632	4822 122 33741	10pF 10% 50V
2700	2238 586 59812	100nF 20% 50V 0603
2701	2238 586 59812	100nF 20% 50V 0603
2702	2238 586 59812	100nF 20% 50V 0603
2703	2238 586 59812	100nF 20% 50V 0603
2704	2238 586 59812	100nF 20% 50V 0603
2705	2238 586 59812	100nF 20% 50V 0603
2706	4822 124 23002	10µF 16V
2707	4822 124 23002	10µF 16V
2708	2238 586 59812	100nF 20% 50V 0603
2709	4822 124 23002	10µF 16V
2710	2238 586 59812	100nF 20% 50V 0603
2711	2238 586 59812	100nF 20% 50V 0603
2712	2238 586 59812	100nF 20% 50V 0603
2713	4822 124 23002	10µF 16V
2714	5322 126 11578	1nF 10% 50V 0603
2715	2020 552 94427	100pF 5% 50V

–WW–

3100	4822 051 30103	10kΩ 5% 0.062W
3101	4822 051 30103	10kΩ 5% 0.062W
3112	4822 051 30103	10kΩ 5% 0.062W
3116	4822 051 30103	10kΩ 5% 0.062W
3117	4822 051 30103	10kΩ 5% 0.062W
3119	4822 051 30103	10kΩ 5% 0.062W
3128	4822 051 30103	10kΩ 5% 0.062W
3130	4822 051 30103	10kΩ 5% 0.062W
3131	4822 051 30103	10kΩ 5% 0.062W
3133	3198 021 32290	22Ω 5% 0603
3133	9965 000 23109	22Ω 5% 0603
3134	3198 021 32290	22Ω 5% 0603
3134	9965 000 23109	22Ω 5% 0603
3135	3198 021 32290	22Ω 5% 0603
3135	9965 000 23109	22Ω 5% 0603
3137	4822 051 30103	10kΩ 5% 0.062W
3138	4822 051 30103	10kΩ 5% 0.062W
3139	4822 051 30339	33Ω 5% 0.062W
3140	5322 117 13036	1.2kΩ 1% 0.063W 0603
3141	4822 051 30103	10kΩ 5% 0.062W
3142	4822 051 30101	100Ω 5% 0.062W
3143	4822 051 30101	100Ω 5% 0.062W
3144	4822 051 30101	100Ω 5% 0.062W
3146	4822 051 30101	100Ω 5% 0.062W
3147	4822 051 30101	100Ω 5% 0.062W
3151	4822 051 30103	10kΩ 5% 0.062W
3154	4822 051 30103	10kΩ 5% 0.062W
3156	3198 031 13390	4 x 33Ω 5% 1206
3157	3198 031 13390	4 x 33Ω 5% 1206
3158	3198 031 13390	4 x 33Ω 5% 1206
3159	3198 031 13390	4 x 33Ω 5% 1206
3160	4822 051 30339	33Ω 5% 0.062W
3161	4822 051 30339	33Ω 5% 0.062W
3162	4822 051 30339	33Ω 5% 0.062W
3163	4822 051 30103	10kΩ 5% 0.062W
3200	4822 051 30332	3.3Ω 5% 0.062W
3205	4822 051 30103	10kΩ 5% 0.062W
3206	4822 051 30332	3.3Ω 5% 0.062W
3207	4822 051 30332	3.3Ω 5% 0.062W
3209	4822 051 30101	100Ω 5% 0.062W
3210	4822 051 30101	100Ω 5% 0.062W
3211	4822 051 30103	10kΩ 5% 0.062W
3300	3198 021 31080	1Ω 5% 0603
3301	3198 021 31080	1Ω 5% 0603
3303	3198 021 31080	1Ω 5% 0603
3304	5322 117 13046	1.8kΩ 1% 0.063W 0603
3306	2322 704 61002	1kΩ 1%
3307	2322 704 61001	100Ω 1% 0603
3312	3198 021 31080	1Ω 5% 0603
3313	3198 021 31080	1Ω 5% 0603
3314	3198 021 31080	1Ω 5% 0603
3315	4822 051 30102	1kΩ 5% 0.062W
3316	4822 051 30102	1kΩ 5% 0.062W
3317	2322 704 63302	3.3kΩ 1% 0603
3318	3198 021 31080	1Ω 5% 0603
3319	3198 021 31080	1Ω 5% 0603
3320	3198 021 31080	1Ω 5% 0603
3321	3198 021 31080	1Ω 5% 0603
3322	2322 704 63902	3.9kΩ 1% 0603
3322	5322 117 13042	3.9kΩ 1% 0.063W 0603
3323	5322 117 13057	820Ω 1% 0.063W 0603
3324	4822 051 30102	1kΩ 5% 0.062W
3325	4822 117 13632	100kΩ 1% 0603 0.62W
3326	4822 051 30103	10kΩ 5% 0.062W
3327	4822 051 30339	33Ω 5% 0.062W
3328	4822 117 13632	100kΩ 1% 0603 0.62W
3330	3198 021 31820	1.8kΩ 5% 0.062W 0603
3331	2322 704 61001	100Ω 1% 0603
3332	5322 117 13055	75Ω 1% 0.063W 0603
3333	4822 051 30273	27kΩ 5% 0.062W
3333	4822 117 12925	47kΩ 1% 0.063W 0603
3334	4822 051 30103	10kΩ 5% 0.062W
3334	4822 051 30333	33kΩ 5% 0.062W
3403	4822 051 30103	10kΩ 5% 0.062W
3404	4822 051 30561	560Ω 5% 0.062W
3405	4822 051 30102	1kΩ 5% 0.062W
3406	4822 051 30102	1kΩ 5% 0.062W
3407	4822 051 30689	68Ω 5% 0.063W 0603
3411	4822 051 30181	180Ω 5% 0.062W
3420	4822 051 30339	33Ω 5% 0.062W
3421	4822 051 30339	33Ω 5% 0.062W
3422	4822 051 30153	15kΩ 5% 0.062W
3423	4822 051 30153	15kΩ 5% 0.062W
3500	4822 051 30102	1kΩ 5% 0.062W
3501	4822 117 12968	820Ω 5% 0.62W
3502	4822 051 30683	68kΩ 5% 0.062W
3503	4822 051 30102	1kΩ 5% 0.062W
3504	4822 117 13613	2.2Ω 5% 0603
3505	4822 117 12968	820Ω 5% 0.62W
3506	4822 051 30333	33kΩ 5% 0.062W
3507	4822 051 30152	1.5Ω 5% 0.062W
3508	4822 117 13613	2.2Ω 5% 0603
3509	4822 051 30102	1kΩ 5% 0.062W
3510	4822 051 30683	68kΩ 5% 0.062W
3511	4822 117 12968	820Ω 5% 0.62W
3512	4822 051 30101	100Ω 5% 0.062W
3513	4822 051 30101	100Ω 5% 0.062W
3514	4822 051 30102	1kΩ 5% 0.062W
3515	4822 051 30333	33kΩ 5% 0.062W
3516	4822 117 12968	820Ω 5% 0.62W
3517	4822 051 30152	1.5Ω 5% 0.062W
3519	4822 051 30759	75Ω 5% 0.062W
3520	4822 051 30759	75Ω 5% 0.062W
3521	4822 051 30759	75Ω 5% 0.062W
3522	4822 051 30759	75Ω 5% 0.062W
3523	4822 051 30759	75Ω 5% 0.062W
3526	4822 051 30759	75Ω 5% 0.062W
3527	4822 051 30759	75Ω 5% 0.062W
3528	5322 117 11726	10Ω 5%
3530	4822 051 30759	75Ω 5% 0.062W
3532	4822 051 30561	560Ω 5% 0.062W
3533	4822 051 30759	75Ω 5% 0.062W
3534	4822 117 12891	220kΩ 1%
3535	4822 117 13632	100kΩ 1% 0603 0.62W
3537	4822 117 12891	220kΩ 1%
3538	4822 117 13632	100kΩ 1% 0603 0.62W
3539	4822 051 30759	75Ω 5% 0.062W
3540	4822 051 30561	560Ω 5% 0.062W
3547	4822 051 30759	75Ω 5% 0.062W
3548	4822 051 30102	1kΩ 5% 0.062W
3548	4822 051 30561	560Ω 5% 0.062W
3557	4822 117 13632	100kΩ 1% 0603 0.62W
3558	4822 051 30102	1kΩ 5% 0.062W
3559	4822 051 30681	680Ω 5% 0.062W
3560	4822 051 30273	27kΩ 5% 0.062W
3561	4822 051 30271	270Ω 5% 0.062W
3562	4822 051 30151	150Ω 5% 0.062W
3563	4822 117 13632	100kΩ 1% 0603 0.62W
3564	4822 051 30102	1kΩ 5% 0.062W
3565	4822 051 30681	680Ω 5% 0.062W
3566	4822 051 30273	27kΩ 5% 0.062W
3567	4822 051 30271	270Ω 5% 0.062W
3568	4822 051 30151	150Ω 5% 0.062W
3570	4822 051 30689	68Ω 5% 0.063W 0603
3571	4822 051 30151	150Ω 5% 0.062W
3572	4822 051 30561	560Ω 5% 0.062W
3606	4822 051 30101	100Ω 5% 0.062W
3607	4822 051 30101	100Ω 5% 0.062W
3608	4822 051 30103	10kΩ 5% 0.062W
3609	4822 051 30472	4.7Ω 5% 0.062W
3610	4822 051 30472	4.7Ω 5% 0.062W
3612	4822 051 30472	4.7Ω 5% 0.062W
3613	4822 117 13632	100kΩ 1% 0603 0.62W
3614	4822 117 13632	100kΩ 1% 0603 0.62W
3615	4822 051 30102	1kΩ 5% 0.062W
3618	4822 117 13632	100kΩ 1% 0603 0.62W
3619	4822 117 13632	100kΩ 1% 0603 0.62W
3621	4822 051 30339	33Ω 5% 0.062W
3622	3198 031 13390	4 x 33Ω 5% 1206
3623	4822 051 30472	4.7Ω 5% 0.062W
3624	3198 031 13390	4 x 33Ω 5% 1206
3625	4822 051 30101	100Ω 5% 0.062W
3626	4822 051 30272	2.7kΩ 5% 0.062W
3627	4822 051 30272	2.7kΩ 5% 0.062W
3629	4822 051 30101	100Ω 5% 0.062W
3630	4822 051 30101	100Ω 5% 0.062W
3631	4822 051 30101	100Ω 5% 0.062W
3635	4822 051 30339	33Ω 5% 0.062W
3636	4822 051 30684	680kΩ 5% 0.062W
3637	4822 117 12891	220kΩ 1%
3638	4822 051 30331	330Ω 5% 0.062W
3639	4822 051 30391	390Ω 5% 0.062W
3640	4822 051 30684	680kΩ 5% 0.062W
3641	4822 117 12891	220kΩ 1%
3642	4822 051 30331	330Ω 5% 0.062W
3643	4822 051 30331	330Ω 5% 0.062W
3644	3198 031 13390	4 x 33Ω 5% 1206
3645	4822 051 30103	10kΩ 5% 0.062W
3700	4822 051 30101	100Ω 5% 0.062W
3701	4822 051 30101	100Ω 5% 0.062W
3702	3198 031 13390	4 x 33Ω 5% 1206
3703	3198 031 13390	4 x 33Ω 5% 1206
3704	4822 051 30103	10kΩ 5% 0.062W

3705	3198 031 13390	4 x 33Ω 5% 1206
3707	4822 051 30103	10kΩ 5% 0.062W
3708	4822 051 30103	10kΩ 5% 0.062W
3709	4822 051 30103	10kΩ 5% 0.062W
3710	4822 051 30103	10kΩ 5% 0.062W
3711	4822 051 30103	10kΩ 5% 0.062W
3712	4822 051 30103	10kΩ 5% 0.062W
3713	2322 704 62002	2kΩ 1%
3715	4822 051 30103	10kΩ 5% 0.062W
3716	4822 051 30103	10kΩ 5% 0.062W
3717	4822 051 30103	10kΩ 5% 0.062W
3718	4822 051 30103	10kΩ 5% 0.062W
3719	4822 051 30103	10kΩ 5% 0.062W
3720	4822 051 30103	10kΩ 5% 0.062W
3721	4822 051 30103	10kΩ 5% 0.062W
3722	4822 051 30103	10kΩ 5% 0.062W
3723	3198 031 13390	4 x 33Ω 5% 1206
3724	3198 031 13390	4 x 33Ω 5% 1206
3725	4822 051 30339	33Ω 5% 0.062W
3726	4822 051 30339	33Ω 5% 0.062W
3727	4822 051 30479	47Ω 5% 0.062W
3728	4822 051 30479	47Ω 5% 0.062W
3729	4822 051 30479	47Ω 5% 0.062W
3730	4822 051 30479	47Ω 5% 0.062W
3731	4822 051 30479	47Ω 5% 0.062W
3732	4822 051 30479	47Ω 5% 0.062W
3733	4822 051 30479	47Ω 5% 0.062W
3734	4822 117 13573	4 x 47Ω 5%
3738	4822 051 30479	47Ω 5% 0.062W
3739	4822 051 30479	47Ω 5% 0.062W
3740	4822 051 30479	47Ω 5% 0.062W
3741	4822 051 30479	47Ω 5% 0.062W
3742	4822 051 30479	47Ω 5% 0.062W
3743	4822 051 30479	47Ω 5% 0.062W
3744	4822 051 30479	47Ω 5% 0.062W
3745	4822 051 30479	47Ω 5% 0.062W
3746	4822 051 30479	47Ω 5% 0.062W
3747	4822 051 30479	47Ω 5% 0.062W
3748	4822 051 30479	47Ω 5% 0.062W
3749	4822 051 30339	33Ω 5% 0.062W
3750	4822 051 30339	33Ω 5% 0.062W
3751	4822 051 30472	4.7Ω 5% 0.062W
3752	4822 051 30472	4.7Ω 5% 0.062W
4100	4822 051 30008	Jumper 0603
4101	4822 051 30008	Jumper 0603
4102	4822 051 30008	Jumper 0603
4104	4822 051 30008	Jumper 0603
4105	4822 051 30008	Jumper 0603
4106	4822 051 30008	Jumper 0603
4107	4822 051 30008	Jumper 0603
4108	4822 051 30008	Jumper 0603
4110	4822 051 30008	Jumper 0603
4200	4822 051 30008	Jumper 0603
4202	4822 051 30008	Jumper 0603
4204	4822 051 30008	Jumper 0603
4212	4822 051 30008	Jumper 0603
4302	4822 051 30008	Jumper 0603
4414	4822 051 30008	Jumper 0603
4415	4822 051 30008	Jumper 0603
4505	4822 051 30008	Jumper 0603
4507	4822 051 30008	Jumper 0603
4605	4822 051 30008	Jumper 0603
4607	4822 051 30008	Jumper 0603
4700	4822 051 30008	Jumper 0603

5100	4822 157 11499	Bead 60Ω at 100MHz
5101	4822 157 11717	Bead 50Ω at 100MHz
5102	4822 157 11717	Bead 50Ω at 100MHz
5103	4822 157 11717	Bead 50Ω at 100MHz
5201	4822 157 11499	Bead 60Ω at 100MHz
5202	4822 157 11499	Bead 60Ω at 100MHz
5203	4822 157 11499	Bead 60Ω at 100MHz
5300	2422 536 00491	47µH
5301	4822 157 10452	10µH 10%
5302	2422 535 94639	10µH 20%
5303	2422 536 00548	100µ
5304	4822 157 10452	10µH 10%
5305	2422 536 00548	100µ
5306	4822 157 10452	10µH 10%
5307	2422 535 94639	10µH 20%
5309	3198 018 90050	Bead 1kΩ at 100MHz
5401	4822 157 11499	Bead 60Ω at 100MHz
5420	2422 549 44197	Bead 220Ω at 100MHz
5502	4822 157 11499	Bead 60Ω at 100MHz
5504	4822 157 11499	Bead 60Ω at 100MHz
5505	4822 157 11499	Bead 60Ω at 100MHz
5507	4822 157 11499	Bead 60Ω at 100MHz
5508	4822 157 11499	Bead 60Ω at 100MHz
5511	3198 018 52280	2.2µH 10% 0603
5512	3198 018 52280	2.2µH 10% 0603
5513	3198 018 52280	2.2µH 10% 0603
5514	3198 018 52280	2.2µH 10% 0603
5528	4822 157 11499	Bead 60Ω at 100MHz
5600	4822 157 11499	Bead 60Ω at 100MHz
5601	4822 157 11499	Bead 60Ω at 100MHz
5602	4822 157 11499	Bead 60Ω at 100MHz
5700	4822 157 11499	Bead 60Ω at 100MHz
5701	4822 157 11499	Bead 60Ω at 100MHz
5702	4822 157 11499	Bead 60Ω at 100MHz
5703	4822 157 11499	Bead 60Ω at 100MHz
5704	4822 157 11499	Bead 60Ω at 100MHz



6300	9322 128 70685	SMSS14
6303	9322 128 70685	SMSS14
6304	9322 128 70685	SMSS14
6307	9965 000 20150	1N4148WS SOD-323
6400	9340 548 52115	PDZ5.1B
6401	4822 130 10837	UDZS8.2B
6403	4822 130 10837	UDZS8.2B
6503	4822 130 11397	BAS316
6504	4822 130 11397	BAS316



7100	9352 744 74557	PNX8316HS/C102
7100	9352 773 55557	PNX8314HS/C102
7200	9322 206 20668	M29W320DT70N6F
7202	9322 213 88668	K4S281632F-TC60
7202	9322 217 26668	MT48LC8M16A2P-6A
7203	9322 130 41668	M24C64-WMN6
7300	4822 209 60059	MC34063AP1
7301	9322 184 19687	LD1117V18
7302	9322 216 98687	LD1117V
7303	4822 209 60059	MC34063AP1
7305	4822 209 60059	MC34063AP1
7306	9322 165 15685	NCP303LSN30
7307	9322 202 15687	LD1117V50
7308	9322 202 15687	LD1117V50
7309	4822 130 60373	BC856B
7310	3198 010 70510	TL431CZ
7311	9322 214 70685	SI2314EDS-E3
7312	5322 130 60159	BC846B
7402	5322 130 60159	BC846B
7403	9322 150 49668	LM3525M-H
7500	4822 130 60373	BC856B
7501	5322 130 60159	BC846B
7502	9352 668 39118	UDA1334ATS/N2
7503	4822 130 60373	BC856B
7504	5322 130 60159	BC846B
7505	5322 130 60159	BC846B
7506	5322 130 60159	BC846B
7507	5322 130 60159	BC846B
7510	5322 130 60159	BC846B
7511	4822 130 60373	BC856B
7512	5322 130 60159	BC846B
7513	4822 130 60373	BC856B
7514	5322 130 60159	BC846B
7600	9352 732 45557	TDA10046AHT/C1
7601	5322 209 70225	LM393D
7605	9352 630 16165	74AHC1GU04GW
7606	9352 630 16165	74AHC1GU04GW
7700	9322 172 92671	CIMAX 2.0
7700	9322 227 91671	STV0700L
7701	9352 190 10118	74LVC573ADB
7702	9352 190 10118	74LVC573ADB
7703	9352 115 40118	74LVC245APW
7704	2722 171 00207	Xtal 27MHZ 50P
7704	2722 171 08821	XTL 27MHz 50pF
7705	9322 175 13668	ST890CD

11. Revision List

Manual xxxx xxx xxxx.0

- First release.

Manual xxxx xxx xxxx.1

- **Chapter 7:** PSU schematics and PWB's [A] added.
- **Chapter 10:** PSU parts list [A] added and software items updated.

Manual xxxx xxx xxxx.2

- **Front Page:** New photo added.
- **Chapter 1:** Digital connector descriptions added.
- **Chapter 6 & 7:** Added SSB 61411.
- **Chapter 10:** Spare Parts List updated.

Manual xxxx xxx xxxx.3

- **Chapter 7:** PDP FHP Supply (.2) diagrams and layouts added.
- **Chapter 10:** PDP FHP Supply panel (.2) added.